

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:49:04 ; Search time 23 Seconds

(without alignments)  
 298.533 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133

Sequence: 1 QNEICLTHPIKXIMACMSA.....VIEPIVITNNWQKLEFWHKH 133

Scoring table: OLIGO Gapext 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued\_Patents\_AA:\*

1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep:\*

2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*

3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*

4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*

5: /cgn2\_6/ptodata/2/iaa/PICTUS\_COMB.pep:\*

6: /cgn2\_6/ptodata/2/iaa/bckfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4.8	36.1	128	1 US-09-244-116B-17	Sequence 17, App1
2	4.1	30.8	829	4 US-09-881-1239-5	Sequence 5, App1
3	4.1	30.8	1099	4 US-09-881-654-4	Sequence 4, App1
4	2.0	15.0	20	4 US-09-790-497A-104	Sequence 104, App1
5	2.0	15.0	22	2 US-09-146-028-107	Sequence 107, App1
6	2.0	15.0	22	3 US-08-723-425A-107	Sequence 107, App1
7	2.0	15.0	22	3 US-09-112-206-107	Sequence 107, App1
8	2.0	15.0	22	4 US-09-576-824A-104	Sequence 104, App1
9	1.9	14.3	19	1 US-08-244-116B-2	Sequence 2, App1
10	1.9	14.3	247	1 US-08-324-977-44	Sequence 44, App1
11	1.9	14.3	247	2 US-08-384-616-44	Sequence 44, App1
12	1.9	14.3	247	2 US-08-904-686A-44	Sequence 44, App1
13	1.9	14.3	247	3 US-09-315-850-44	Sequence 44, App1
14	1.9	14.3	631	1 US-08-700-356-1	Sequence 1, App1
15	1.9	14.3	631	2 US-08-936-965-1	Sequence 1, App1
16	1.9	14.3	632	3 US-09-198-723A-23	Sequence 23, App1
17	1.9	14.3	632	4 US-09-684-881-23	Sequence 23, App1
18	1.9	14.3	646	3 US-09-198-723A-60	Sequence 60, App1
19	1.9	14.3	646	3 US-09-723A-63	Sequence 63, App1
20	1.9	14.3	646	3 US-09-198-723A-66	Sequence 66, App1
21	1.9	14.3	646	3 US-09-198-723A-69	Sequence 69, App1
22	1.9	14.3	646	4 US-09-684-881-72	Sequence 72, App1
23	1.9	14.3	646	4 US-09-684-881-60	Sequence 60, App1
24	1.9	14.3	646	4 US-09-684-881-63	Sequence 63, App1
25	1.9	14.3	646	4 US-09-684-881-66	Sequence 66, App1
26	1.9	14.3	646	4 US-09-684-881-69	Sequence 69, App1
27	1.9	14.3	646	4 US-09-684-881-72	Sequence 72, App1

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Result No.	Score	Query Match	Length	DB ID	Description
1	4.8	36.1	128	1 US-09-244-116B-17	Sequence 17, App1
2	4.1	30.8	829	4 US-09-881-1239-5	Sequence 5, App1
3	4.1	30.8	1099	4 US-09-881-654-4	Sequence 4, App1
4	2.0	15.0	20	4 US-09-790-497A-104	Sequence 104, App1
5	2.0	15.0	22	2 US-09-146-028-107	Sequence 107, App1
6	2.0	15.0	22	3 US-08-723-425A-107	Sequence 107, App1
7	2.0	15.0	22	3 US-09-112-206-107	Sequence 107, App1
8	2.0	15.0	22	4 US-09-576-824A-104	Sequence 104, App1
9	1.9	14.3	19	1 US-08-244-116B-2	Sequence 2, App1
10	1.9	14.3	247	1 US-08-324-977-44	Sequence 44, App1
11	1.9	14.3	247	2 US-08-384-616-44	Sequence 44, App1
12	1.9	14.3	247	3 US-09-904-686A-44	Sequence 44, App1
13	1.9	14.3	247	3 US-09-315-850-44	Sequence 44, App1
14	1.9	14.3	631	1 US-08-700-356-1	Sequence 1, App1
15	1.9	14.3	631	2 US-08-936-965-1	Sequence 1, App1
16	1.9	14.3	632	3 US-09-198-723A-23	Sequence 23, App1
17	1.9	14.3	632	4 US-09-684-881-23	Sequence 23, App1
18	1.9	14.3	646	3 US-09-198-723A-60	Sequence 60, App1
19	1.9	14.3	646	3 US-09-723A-63	Sequence 63, App1
20	1.9	14.3	646	3 US-09-198-723A-66	Sequence 66, App1
21	1.9	14.3	646	3 US-09-198-723A-69	Sequence 69, App1
22	1.9	14.3	646	4 US-09-684-881-72	Sequence 72, App1
23	1.9	14.3	646	4 US-09-684-881-60	Sequence 60, App1
24	1.9	14.3	646	4 US-09-684-881-63	Sequence 63, App1
25	1.9	14.3	646	4 US-09-684-881-66	Sequence 66, App1
26	1.9	14.3	646	4 US-09-684-881-69	Sequence 69, App1
27	1.9	14.3	646	4 US-09-684-881-72	Sequence 72, App1

#### ALIGNMENTS

RESULT 1  
 US-08-244-116B-17  
 ; Sequence 17, Application US/08244116B  
 ; Patent No. 5763159  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Simmonds, Peter  
 ; APPLICANT: Chan, Shiu-Wan  
 ; APPLICANT: Yap, Peng L.  
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing  
 ; NUMBER OF SEQUENCES: 53  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
 ; STREET: 1211 East Morehead Street  
 ; CITY: Charlotte  
 ; STATE: No. 5763159th Carolina  
 ; COUNTRY: United States  
 ; ZIP: 28224  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Parent In Release #1.0. Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/244-116B  
 ; FILING DATE: 15-JUL-1994  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/GB92/02143  
 ; FILING DATE: 20-NOV-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sibley, Kenneth D.  
 ; REGISTRATION NUMBER: 31,665  
 ; REFERENCE DOCKET NUMBER: 1749-125  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 704-377-1561  
 ; TELEFAX: 704-334-2014  
 ; INFORMATION FOR SEQ ID NO: 17:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 128 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; HYPOTHETICAL: yes  
 ; FRAGMENT TYPE: internal  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Hepatitis-C virus  
 ; US-08-244-116B-17  
 ; Query Match Score 48; DB 1; Length 128;  
 ; Query Match

Best Local Similarity 100.0%; Pred. No. 3.2e-39;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 15 MACMSADLEVTSTWVLGGVLAAYCLSVCCVIVGHIELGGKPA 62  
 Dp 9 MACMSADLEVTSTWVLGGVLAAYCLSVCCVIVGHIELGGKPA 56

RESULT 2  
 US-09-881-239-5  
 Sequence 5, Application US/09881239  
 Patent No. 6630298  
 GENERAL INFORMATION:  
 APPLICANT: CHIEN, David Y.  
 APPLICANT: ARCANDEL, Phillip  
 APPLICANT: TANDESKA, Laura  
 APPLICANT: GEORGE-NASCIMENTO, Carlos  
 APPLICANT: COIT, Doris  
 APPLICANT: MEDINA-SELYB, Angelica  
 TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY  
 FILE REFERENCE: 2304-16073 / P16073.003  
 CURRENT APPLICATION NUMBER: US/09/881.23.9  
 CURRENT FILING DATE: 2001-06-14  
 SEQ ID NO: 5  
 SOFTWARE: PatentIn Ver. 2.0  
 LENGTH: 829  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: MEFA 12

US-09-881-239-5

Query Match Score 41; DB 4; Length 829;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-31;  
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEQAVIAHOFK 98  
 Dp 444 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEQAVIAHOFK 484

RESULT 3  
 US-09-881-654-4  
 Sequence 4, Application US/09881654  
 Patent No. 6632601  
 GENERAL INFORMATION:  
 APPLICANT: CHIEN, David Y.  
 APPLICANT: ARCANDEL, Phillip  
 APPLICANT: TANDESKA, Laura  
 APPLICANT: COIT, Doris  
 APPLICANT: MEDINA-NAVICENTO, Carlos  
 APPLICANT: MEDINA-SELYB, Angelica  
 TITLE OF INVENTION: IMMUNOCASSAYS FOR ANTI-HCV ANTIBODIES  
 FILE REFERENCE: 2304-17039 / P17039.002  
 CURRENT APPLICATION NUMBER: US/09/881.654  
 CURRENT FILING DATE: 2001-06-14  
 PRIOR APPLICATION NUMBER: 60/212,082  
 PRIOR FILING DATE: 2000-06-15  
 PRIOR APPLICATION NUMBER: 60/280,811  
 PRIOR FILING DATE: 2001-04-02  
 PRIOR APPLICATION NUMBER: 60/280,867  
 PRIOR FILING DATE: 2001-04-02  
 NUMBER OF SEQ ID NOS: 7  
 SOFTWARE: PatentIn Ver. 2.0  
 LENGTH: 1099  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1

US-09-881-654-4

RESULT 4  
 US-09-790-497A-104  
 Sequence 104, Application US/09790497A  
 Patent No. 6619735  
 GENERAL INFORMATION:  
 APPLICANT: De Leyva, Robert  
 TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OF BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM  
 TITLE OF INVENTION: EPITOPE; CONTAINING THEM  
 FILE REFERENCE: 2752-16  
 CURRENT APPLICATION NUMBER: US/09/790,497A  
 CURRENT FILING DATE: 2001-02-23  
 PRIOR APPLICATION NUMBER: 09/576,824  
 PRIOR FILING DATE: 2000-05-23  
 PRIOR APPLICATION NUMBER: 09/723,425  
 PRIOR FILING DATE: 1996-09-30  
 PRIOR APPLICATION NUMBER: 09/146,028  
 PRIOR FILING DATE: 1993-11-22  
 PRIOR APPLICATION NUMBER: PCT/EP93/00517  
 PRIOR FILING DATE: 1993-03-08  
 PRIOR APPLICATION NUMBER: EP 92400598.6  
 PRIOR FILING DATE: 1992-03-06  
 NUMBER OF SEQ ID NOS: 600  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO: 104  
 LENGTH: 20  
 TYPE: PPT  
 ORGANISM: Hepatitis C virus  
 US-09-790-497A-104

RESULT 5  
 US-09-146-028-107  
 Sequence 107, Application US/09146028  
 Patent No. 5891640  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM  
 NUMBER OF SEQUENCES: 453  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/146,028  
 INFORMATION FOR SEQ ID NO: 107:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 22 amino acids



Query Match Similarity 15.0%; Score 20; DB 4; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-12; Indels 0; Gaps 0;  
 Matches 20; Conservative 0; Mismatches 0; Del 0; Insert 0;

Qy 57 LGGKPALVPDKEVLYQQYDE 76

Db 2 LGGKPALVPDKEVLYQQYDE 21

RESULT 9

US-08-244-116-B-2

; Sequence 2, Application US/08244116B

; Patent No. 5733159

; GENERAL INFORMATION:

; APPLICANT: Simmonds, Peter

; APPLICANT: Chan, Shiu-Wan

; APPLICANT: Yap, Peng L.

; TITLE OF INVENTION: Hepatitis-C Virus Testing

; NUMBER OF SEQUENCES: 53

; CURRENT PRIORITY/ADDRESS:

; ADDRESS/SEE: Bell, Seltzer, Park &amp; Gibson, P.A.

; STREET: 1211 East Morehead Street

; CITY: Charlotte

; STATE: No. 5763159th Carolina

; COUNTRY: United States

; ZIP: 28234

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0. Version #1.3.0

; CURRENT APPLICATION NUMBER: US/08/244,116B

; FILING DATE: 15-JUL-1994

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/GB92/02143

; FILING DATE: 20-NOV-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Sibley, Kenneth D.

; REGISTRATION NUMBER: 31,665

; REFERENCE/DOCKET NUMBER: 1749-125

; TELECOMMUNICATION INFORMATION:

; TELEFAX: 704-377-1561

; INFORMATION FOR SEQ ID NO: 2:

; LENGTH: 19 amino acids

; TYPE: amino acid

; STRANDBNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; HYPOTHEtical: NO

; FRAGMENT TYPE: internal

; ORIGINAL SOURCE:

; ORGANISM: Hepatitis-C virus

; US-08-244-116-B-2

; Query Match Similarity 14.3%; Score 19; DB 1; Length 19;

; Best Local Similarity 100.0%; Pred. No. 8.8e-12; Indels 0; Gaps 0;

; Matches 19; Conservative 0; Mismatches 0; Del 0; Insert 0; Gaps 0;

; Qy 79 ECSQQAPYEQAOVTAAQF 97

; Db 1 ECSQQAPYEQAOVTAAQF 19

APPLICANT: FUKE, Isao  
 APPLICANT: MORI, Chiisato  
 APPLICANT: TAKAMIZAWA, Iwao  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
 ADDRESSEE: Naughton  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/324,977  
 FILING DATE: 18-OCT-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635,451  
 FILING DATE: 28-DEC-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Stevens Smith, Theresa M.  
 REGISTRATION NUMBER: 36,281  
 REFERENCE/DOCKET NUMBER: 900703D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 659-2930  
 TELEFAX: (202) 887-0357  
 TELEX: 440142  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 247 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-324-977-44

Query Match Similarity 14.3%; Score 19; DB 1; Length 247;  
 Best Local Similarity 100.0%; Pred. No. 9.5e-11; Indels 0; Gaps 0;  
 Matches 19; Conservative 0; Mismatches 0; Del 0; Insert 0; Gaps 0;  
 Qy 6 LTHPITKYMACHMSADLEV 24  
 Db 22 LTHPITKYMACHMSADLEV 40

RESULT 11  
 US-08-344-616-44  
 ; Sequence 44, Application US/08384616  
 ; Patent No. 5847101  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OKAYAMA, Hiroto  
 ; APPLICANT: FUKE, Isao

APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/384,616  
 FILING DATE: 02-OCT-1991  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 02-OCT-1990  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635,451  
 FILING DATE: 28-DEC-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Stevens-Smith, Theresa M.  
 REGISTRATION NUMBER: 36,281  
 REFERENCE/DOCKET NUMBER: 900703B  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 659-2930  
 TELEX: 440142

INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 247 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-384-616-44

Query Match 1.2  
 Best Local Similarity 100.0% ; Pred. No. 9.5e-11 ; Length 247;  
 Matches 19 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;  
 Qy 6 LTHPITKYMACMSADLEV 24  
 Db 22 LTHPITKYMACMSADLEV 40

RESULT 1.2  
 US-08-904-68A-44  
 Sequence 44, Application US/08904686A  
 Patent No. 5998130  
 GENERAL INFORMATION:  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: FUKE, Isao  
 APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/904,686A  
 FILING DATE: 01-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/324,977  
 FILING DATE: 18-OCT-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635,451  
 FILING DATE: 28-DEC-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLeland, Le-Nhung  
 REGISTRATION NUMBER: 31,541  
 REFERENCE/DOCKET NUMBER: 900703G  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 659-2930  
 TELEX: (202) 659-2930  
 INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 247 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-904-68A-44

Query Match 13  
 Best Local Similarity 100.0% ; Pred. No. 9.5e-11 ; Length 247;  
 Matches 19 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;  
 Qy 6 LTHPITKYMACMSADLEV 24  
 Db 22 LTHPITKYMACMSADLEV 40

RESULT 13  
 US-09-315-850-44  
 Sequence 44, Application US/09315850  
 Patent No. 6217872  
 GENERAL INFORMATION:  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: FUKE, Isao  
 APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
ADDRESS: Naughton  
STREET: 1725 K St. N.W. Suite 1000  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20006

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
SOFTWARE: ASCII

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/315, 850  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/904, 686  
FILING DATE: 01-AUG-1997  
APPLICATION NUMBER: US 08/324, 977  
FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-167466  
FILING DATE: 25-JUN-1990

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-230921  
FILING DATE: 31-AUG-1990

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-305605  
FILING DATE: 09-NOV-1990

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/099, 706  
FILING DATE: 30-JUL-1993

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/769, 996  
FILING DATE: 02-OCT-1991

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/635, 451  
FILING DATE: 28-DEC-1990

ATTORNEY/AGENT INFORMATION:  
NAME: McLeland, Le-Nhung  
REGISTRATION NUMBER: 31, 541  
REFERENCE/DOCKET NUMBER: 900703G  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 659-2930  
TELEFAX: (202) 887-0357

SEQUENCE INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 247 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-315-850-44

Query Match 14.3%; Score 19; DB 3; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEY 24  
Db 22 LTHPITKYIMACMSADLEY 40

RESULT 14  
US 08-700-356-1  
; Sequence 1, Application US/08/0356  
; General Information  
; Applicant: DE FRANCESCO, Raffaele  
; Applicant: FAILLA, Cristina

Query Match 14.3%; Score 19; DB 3; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEY 24  
Db 22 LTHPITKYIMACMSADLEY 40

RESULT 15  
US-08-936-865-1  
; Sequence 1, Application US/08/936865  
; Patent No. 5861297  
; General Information:  
; Applicant: Sardana, Vinod V  
; Title of Invention: DETERGENT-FREE HEPATITIS C PROTEASE  
; Number of Sequences: 3  
; Correspondence Address:  
; Addressee: MERCK & CO., INC.  
; Street: P.O. Box 2000, 126 E. Lincoln Ave.  
; City: Rahway  
; State: NJ  
; Country: US  
; Zip: 07065-0907  
; Computer Readable Form:  
; Medium Type: Floppy disk  
; Computer: IBM PC compatible  
; Operating System: PC-DOS/MS-DOS  
; Software: Patent In Release #1.0, Version #1.30  
; Current Application Data:  
; Application Number: US/08/936, 865  
; Filing Date:  
; Classification: 435  
; Attorney/Agent Information:  
; Name: Ayler, Sylvia A  
; Registration Number: 36, 436

REFERENCE/DOCKET NUMBER: 19691  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-594-4909  
TELEFAX: 908-594-4720  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 631 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: Hepatitis C. Virus  
STRAIN: NS3 Serine Protease Domain  
INDIVIDUAL ISOLATE: BK  
IMMEDIATE SOURCE:  
LIBRARY: described by Tomai et al. in 1993  
CLONE: cDNA clone PCD (38.9.4)  
POSITION IN GENOME:  
MAP POSITION: 1-180  
US-08-936-865-1

Query Match 14.3%; Score 19; DB 2; Length 631;  
Best Local Similarity 100.0%; Pred. No. 2.3e-10; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 6 LTHPITKYIMACMSADLEV 24  
Db 611 LTHPITKYIMACMSADLEV 629

Search completed: February 25, 2004, 01:54:33  
Job time : 24 secs

GenCore version 5.1.6  
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protein - protein search, using sw model

on: February 25, 2004, 01:53:15 ; Search time 34 Seconds  
 (without alignments)  
 825.982 Million cell updates/sec

file: US-09-638-693-36

effect score: 133

sequence: 1 QNEICLTHPKYIMACMSA.....VIEPIVITNWQKLEAFWHKH 133

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Gapext 60.0 , Gapext 60.0

arched: 809742 seqs, 211153259 residues

rd size : 0

total number of hits satisfying chosen parameters: 809742

minimum DB seq length: 0

maximum DB seq length: 200000000

st-processing: Listing first 45 summaries

atabase : Published Applications AA: \* 1: /can2/6/mindara/2/mindra7/mindra7/PUBCOMP.DAT.\*

ALIGNMENTS

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RESULT 1
US-09-899-046-36
; Sequence 36, Application US/0999046
; Application No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New Sequences of hepatitis C virus
; TITLE OF INVENTION: Sequotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899, 046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362, 455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-36

Query Match Score 133; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 7.6e-121;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 QNETCLTHPTKYMAMCSADLEVTSTWLLGGTAAALAYCLSVGCVVYVGHIELGGK 60
DDB 1 QNETCLTHPTKYMAMCSADLEVTSTWLLGGTAAALAYCLSVGCVVYVGHIELGGK 60
QY 61 PAIPVDPKEVLYQYQDEMEECSQQAPPIEQAQVIAHOFKGKVTLGLIQRATQQAVIBPIVT 120

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Prep. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query			DB	ID	Description
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2	133	100.0	133	10	US-09-878	-281-36	Sequence 36, Appli
3	98	73.7	133	10	US-09-899	-046-38	Sequence 38, Appli
4	98	73.7	133	10	US-09-899	-046-40	Sequence 40, Appli
5	98	73.7	133	10	US-09-878	-281-38	Sequence 38, Appli
6	98	73.7	133	10	US-09-878	-281-40	Sequence 40, Appli
7	98	73.7	209	10	US-09-899	-046-223	Sequence 223, Appli
8	98	73.7	209	10	US-09-878	-281-223	Sequence 223, Appli
9	52	39.1	133	10	US-09-899	-046-32	Sequence 32, Appli
10	52	39.1	133	10	US-09-899	-046-34	Sequence 34, Appli
11	52	39.1	133	10	US-09-878	-281-32	Sequence 32, Appli
12	52	39.1	133	10	US-09-878	-281-34	Sequence 34, Appli
13	48	36.1	128	14	US-10-396	9-364-17	Sequence 17, Appli
14	41	30.8	829	9	US-09-881	-881-239-5	Sequence 5, Appli
15	41	30.8	1099	9	US-09-881	-654-4	Sequence 4, Appli

RESULT 9  
 US-09-899-046-32  
 ; Sequence 32, Application US/09899046  
 ; Publication No. US20030008274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: New sequences of hepatitis C virus  
 ; NUMBER OF SEQUENCES: 270  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/899,046  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/362,455  
 ; FILING DATE:  
 ; INFORMATION FOR SEQ ID NO: 32:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 133 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-899-046-32

Query Match  
 Best Local Similarity 100.0%; Score 52; DB 10; Length 133;  
 Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 10  
 US-09-899-046-34  
 ; Sequence 34, Application US/09899046  
 ; Publication No. US20030008274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: New sequences of hepatitis C virus  
 ; NUMBER OF SEQUENCES: 270  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/899,046  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/362,455  
 ; FILING DATE:  
 ; INFORMATION FOR SEQ ID NO: 34:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 133 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-899-046-34

Query Match  
 Best Local Similarity 100.0%; Score 52; DB 10; Length 133;

Best Local Similarity 100.0%; Pred. No. 1.8e-42; Indels 0; Gaps 0;

Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLETTSTWLLGGVLAALAAUCSVGCVVIGHIELGGKPA 62  
Db 11 TKYIMACMSADLETTSTWLLGGVLAALAAUCSVGCVVIGHIELGGKPA 62

RESULT 13

US-10-396-964-17

Sequence 17; Application US/10396964

Publication No. US20030198946A1

GENERAL INFORMATION:

APPLICANT: Simmonds, Peter

APPLICANT: Chan, Shiu-Wan

APPLICANT: Yap, Peng L.

TITLE OF INVENTION: Hepatitis-C Virus Testing

NUMBER OF SEQUENCES: 53

CORRESPONDENCE ADDRESS:

ADDRESSSEE: Bell, Seltzer, Park & Gibson, P.A.

STREET: 1211 East Morehead Street

CITY: Charlotte

STATE: No. US20030198946A1

Carolina

UNITED STATES

ZIP: 28234

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0. Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/396,964

FILING DATE: 23-MARCH-2003

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/244,116B

FILING DATE: 15-JUL-1994

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/GB92/02143

FILING DATE: 20-NOV-1992

ATTORNEY/AGENT INFORMATION:

NAME: Sibley, Kenneth D.

REGISTRATION NUMBER: 31,665

REFERENCE/DOCKET NUMBER: 1749-125

TELECOMMUNICATION INFORMATION:

TELEPHONE: 704-377-1561

TELEFAX: 704-334-2014

SEQUENCE INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 128 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORGANISM: Hepatitis-C virus

US-10-396-964-17

Best Local Similarity 100.0%; Pred. No. 1.3e-38; Length 128;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 MACMSADLETTSTWLLGGVLAALAAUCSVGCVVIGHIELGGKPA 62  
Db 9 MACMSADLETTSTWLLGGVLAALAAUCSVGCVVIGHIELGGKPA 56

Query Match 36.1%; Score 48; DB 14; Length 128;

Best Local Similarity 100.0%; Pred. No. 5.2e-31;

Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GGKPAIVPDKEVLYQYQDDEMEECSQAAPIYEAQVIAHQFK 98  
Db 748 GGKPAIVPDKEVLYQYQDDEMEECSQAAPIYEAQVIAHQFK 788

RESULT 14

US-09-881-239-5

Sequence 5, Application US/09881239

Search completed: February 25, 2004, 01:58:57

Job time : 35 secs



GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_P2n model

Run on: February 27, 2004, 21:50:18; i: search time 64. Seconds  
 (without alignments)  
 1153.257 Million cell updates/sec

Title: US-09-638-693-36  
 Perfect score: 133  
 Sequence: 1 QNEICLTHPITKYIMACMSA.....VIEPVITVNWQKLEFWHKH 133

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 Ygapop 60.0 , Ygapext 60.0  
 Fgapext 6.0 , Fgapext 7.0  
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Searched: 682709 seqs, 277475446 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1360453

Minimum DB seq length: 0  
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Post-processing: Listing first 45 summaries

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 -LIST=45 -DOCNAME=200 -THR SCORE=quality -THR MIN=1 -MATRIX=ol190 -TRANS=human40.0.cdi  
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 -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=60  
 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELPOP=6 -DELEXT=7

Database : Issued Patents\_NA:  
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 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq:  
 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:  
 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq:  
 5: /cgn2\_6/ptodata/2/ina/PCT05\_COMB.seq:  
 6: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 7: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 8: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 9: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 10: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 11: /cgn2\_6/ptodata/2/ina/backfiles.seq:  
 12: /cgn2\_6/ptodata/2/ina/backfiles.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4.8	36.1	367	1 US-09-244-116B-16	Sequence 16, Appl
2	4.1	30.8	2499	4 US-09-881-239-4	Sequence 4, Appl
3	4.1	30.8	3297	4 US-09-881-654-3	Sequence 3, Appl
4	1.9	14.3	741	1 US-08-324-977-43	Sequence 43, Appl
5	1.9	14.3	741	2 US-08-384-616-43	Sequence 43, Appl
6	1.9	14.3	741	2 US-08-904-686A-43	Sequence 43, Appl
7	1.9	14.3	741	3 US-09-315-850-43	Sequence 43, Appl
8	1.9	14.3	1941	3 US-09-198-723A-116	Sequence 116, Appl
9	1.9	14.3	1941	3 US-09-198-723A-117	Sequence 117, Appl
10	1.9	14.3	1941	3 US-09-198-723A-118	Sequence 118, Appl
11	1.9	14.3	1941	3 US-09-198-723A-119	Sequence 119, Appl
12	1.9	14.3	1941	3 US-09-198-723A-120	Sequence 120, Appl

## ALIGNMENTS

RESULT 1  
 US-09-244-116B-16  
 / Sequence 16, Application US/08244116B  
 ; Patent No. 5763159  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Simmonds, Peter  
 ; APPLICANT: Chan, Shiu-Wan  
 ; APPLICANT: YAP, Peng L.  
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing  
 ; NUMBER OF SEQUENCES: 53  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
 ; STREET: 1211 East Morehead Street  
 ; CITY: Charlotte  
 ; STATE: No. 5763159th Carolina  
 ; COUNTRY: United States  
 ; ZIP: 28234  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC Compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/244-116B  
 ; FILING DATE: 15-JUL-1994  
 ; CLASSIFICATION: 435  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/GB92/02143  
 ; FILING DATE: 20-NOV-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sibley, Kenneth D.  
 ; REGISTRATION NUMBER: 31,665  
 ; REFERENCE/DOCKET NUMBER: 1749-125  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 704-377-1561  
 ; TELEFAX: 704-334-2014



RESULT 4  
 US-08-324-977-43  
 Sequence 43, Application US/08324977  
 Patent No. 574339  
 GENERAL INFORMATION: US/08324977  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Armstrong, Westerman, Hattori, McLeland &  
 ADDRESSSEE: Naughton  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/324,977  
 FILING DATE: 18-OCT-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 28-DEC-1990  
 PRIOR APPLICATION DATA:  
 NAME: Stevens-Smith, Theresa M.  
 REGISTRATION NUMBER: 36,281  
 REFERENCE DOCKET NUMBER: 900703D  
 TELEPHONE: (202) 659-2930  
 TELEFAX: (202) 887-0357  
 TELEX: 440142  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 741 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA from genomic RNA  
 FEATURE: misc feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 FEATURE: CDS  
 LOCATION: 1..741  
 OTHER INFORMATION: SEQ ID NO: 1"  
 US-08-324-977-43

RESULT 4  
 US-08-324-977-43  
 Sequence 43, Application US/08324977  
 Patent No. 574339  
 GENERAL INFORMATION: US/08324977  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Armstrong, Westerman, Hattori, McLeland &  
 ADDRESSSEE: Naughton  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/324,977  
 FILING DATE: 18-OCT-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 28-DEC-1990  
 PRIOR APPLICATION DATA:  
 NAME: Stevens-Smith, Theresa M.  
 REGISTRATION NUMBER: 36,281  
 REFERENCE DOCKET NUMBER: 900703D  
 TELEPHONE: (202) 659-2930  
 TELEFAX: (202) 887-0357  
 TELEX: 440142  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 741 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA from genomic RNA  
 FEATURE: misc feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 FEATURE: CDS  
 LOCATION: 1..741  
 OTHER INFORMATION: SEQ ID NO: 1"  
 US-08-324-977-43

RESULT 5  
 US-08-384-616-43  
 Sequence 43, Application US/08384616  
 Patent No. 584101  
 GENERAL INFORMATION:  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: FUKE, Isaac  
 APPLICANT: MORI, Chisato  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Armstrong, Westerman, Hattori, McLeland &  
 ADDRESSSEE: Naughton  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/384,616  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 02-OCT-1991  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 28-DEC-1990  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769,996  
 FILING DATE: 28-DEC-1990  
 PRIOR APPLICATION DATA:  
 NAME: Stevens-Smith, Theresa M.  
 REGISTRATION NUMBER: 36,281  
 REFERENCE DOCKET NUMBER: 900703B  
 TELEPHONE: (202) 659-2930  
 TELEFAX: (202) 887-0357  
 TELEX: 440142  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 741 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA from genomic RNA

FEATURE: misc\_feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 FEATURE: SEQ ID NO: 1"  
 NAME/KEY: CDS  
 LOCATION: 1..741  
 US-09-384-616-43

Alignment Scores:  
 Pred. No.: 1.2e-10  
 Score: 19.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 14.29%  
 DB: 2

US-09-638-693-36 (1-133) x US-08-384-616-43 (1-741)

Qy 6 LeuThrHisProLeuThrLysTrpIleMetAlaCysMetSerAlaAspLeuIuVal 24  
 Db 64 CTCACCCACCCATAACCAATAATCATGGATGATGTCGGCTGACCTGAGGTC 120

RESULT 6  
 US-08-904-686A-43  
 Sequence 43: Application US/08904686A  
 Patent No. 5998130

GENERAL INFORMATION:  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: FUKE, Isao  
 APPLICANT: MORI, Chiaki  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Armstrong, Westerman, Hattori, McLeland &  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/904, 686A.  
 FILING DATE: 01-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/324, 977

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921

PRIOR APPLICATION DATA:  
 FILING DATE: 31-AUG-1990  
 APPLICATION NUMBER: JP 2-305605

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09-NOV-1990  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099, 706

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769, 996  
 FILING DATE: 02-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635, 451

FEATURE: misc\_feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 FEATURE: SEQ ID NO: 1"  
 NAME/KEY: CDS from genomic RNA  
 LENGTH: 741 base pairs  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 OTHER INFORMATION: SEQ ID NO: 1"  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..741

Alignment Scores:  
 Pred. No.: 1.2e-10  
 Score: 19.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 14.29%  
 DB: 2

US-08-904-686A-43  
 US-08-904-686A-43 (1-133) x US-08-904-686A-43 (1-741)

Qy 6 LeuThrHisProLeuThrLysTrpIleMetAlaCysMetSerAlaAspLeuIuVal 24  
 Db 64 CTCACCCACCCATAACCAATAATCATGGATGATGTCGGCTGACCTGAGGTC 120

RESULT 7  
 US-09-315-850-43  
 Sequence 43: Application US/09315850  
 Patent No. 6217872

GENERAL INFORMATION:  
 APPLICANT: OKAYAMA, Hiroto  
 APPLICANT: FUKE, Isao  
 APPLICANT: MORI, Chiaki  
 APPLICANT: TAKAMIZAWA, Akahisa  
 APPLICANT: YOSHIDA, Iwao  
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
 NUMBER OF SEQUENCES: 50  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Armstrong, Westerman, Hattori, McLeland &  
 STREET: 1725 K St. N.W. Suite 1000  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: U.S.A.  
 ZIP: 20006

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/904, 686A.  
 FILING DATE: 01-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/324, 977

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921

PRIOR APPLICATION DATA:  
 FILING DATE: 31-AUG-1990  
 APPLICATION NUMBER: JP 2-305605

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09-NOV-1990  
 FILING DATE: 02-OCT-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099, 706

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/769, 996  
 FILING DATE: 02-AUG-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/324, 977

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635, 451  
 FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-167466  
 FILING DATE: 25-JUN-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-230921  
 FILING DATE: 31-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 2-305605  
 FILING DATE: 09-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/099,706  
 FILING DATE: 30-JUL-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/635,451  
 FILING DATE: 28-DEC-1990  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McElland, Le-Nhung  
 REGISTRATION NUMBER: 31,541  
 REFERENCE/DOCKET NUMBER: 900703G  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 659-2930  
 TELEFAX: (202) 887-0357  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 741 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA from genomic RNA  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: 1..741  
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of  
 OTHER INFORMATION: SEQ ID NO: 1"  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..741  
 US-09-315-850-43

Alignment Scores:  
 Pred. No.: 1.2e-10  
 Score: 19.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 14.29%  
 DB: 3

US-09-315-850-43 (1-741)

Alignment Scores:  
 Pred. No.: 1.2e-10  
 Score: 19.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 14.29%  
 DB: 3

US-09-315-850-43 (1-741)

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Power Macintosh

OPERATING SYSTEM: 8.0.1

SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,723A

FILING DATE: 24 NOV 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye F.

REGISTRATION NUMBER: 41,211

REFERENCE/DOCKET NUMBER: JB0800

TELECOMMUNICATION INFORMATION:

TELEPHONE: (908)298-5056

TELEFAX: (908)298-5388

INFORMATION FOR SEQ ID NO: 116:

SEQUENCE CHARACTERISTICS:

LENGTH: 1941 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..1941

US-09-198-723A-116

Alignment Scores:

Pred. No.: 3e-10

Score: 19.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 14.29%

DB: 3

US-09-198-723A-116

Qy 6 LeuThrHisProleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24

Db 1876 CTCACCCACCCATAACCAATAACATGGCATGGCTGAGGTCTGGCCACCTGGTC 1932

RESULT 9

US-09-198-723A-117

Qy Sequence 117, Application US/09198723A

Db Patent No. 6211338

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce

ATTORNEY: Weber, Patricia

CITY: Kenilworth

STATE: New Jersey

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Power Macintosh

OPERATING SYSTEM: 8.0.1

SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,723A

FILING DATE: 24 NOV 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Yao, Nanhua

REGISTRATION NUMBER: 41,211

REFERENCE/DOCKET NUMBER: 116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (200) Galloping Hill Road

TELEFAX: (200) Galloping Hill Road

INFORMATION FOR SEQ ID NO: 123:

SEQUENCE CHARACTERISTICS:

LENGTH: 123

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..123

US-09-198-723A-116

Qy Sequence 116, Application US/09198723A

Db Patent No. 6211338

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce

ATTORNEY: Weber, Patricia

CITY: Kenilworth

STATE: New Jersey

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Power Macintosh

OPERATING SYSTEM: 8.0.1

SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,723A

FILING DATE: 24 NOV 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.  
 REFERENCE/DOCKET NUMBER: 41.211  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908) 298-5056  
 TELEFAX: (908) 298-5388  
 INFORMATION FOR SEQ ID NO: 117:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1941 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 US-09-198-723A-117

Alignment Scores:  
 Pred. No.: 3e-10 Length: 1941  
 Score: 19.00 Matches: 19  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14.29% Indels: 0  
 DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-118 (1-1941)

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
 Db 1876 CTCAACCCACCCATAACCAAAATACATCATGGCTGATGGTGCATGGCCGACCTGGAGGT 1932

RESULT 11  
 US-09-198-723A-119

Sequence 119, Application US/09198723A  
 Patent No. 6211338

GENERAL INFORMATION:  
 APPLICANT: Malcolm, Bruce  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Taremi, Shahriar S.  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Weber, Patricia  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Yao, Nanhua  
 TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus  
 TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide  
 NUMBER OF SEQUENCES: 123  
 CURRENT APPLICATION DATA:  
 CORRESPONDENCE ADDRESS:  
 STREET: 2000 Galloping Hill Road  
 CITY: Kenilworth  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 07030  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: Power Macintosh  
 OPERATING SYSTEM: 8.0.1  
 SOFTWARE: Microsoft Word 6.0.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US09/198,723A  
 FILING DATE: 24 NOV 1998  
 CLASIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLaughlin, Jaye P.  
 REGISTRATION NUMBER: 41,211  
 REFERENCE/DOCKET NUMBER: JB0800  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908) 298-5056  
 TELEFAX: (908) 298-5388  
 INFORMATION FOR SEQ ID NO: 119:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1941 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 US-09-198-723A-119

Alignment Scores:  
 Pred. No.: 3e-10 Length: 1941  
 Score: 19.00 Matches: 19  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14.29% Indels: 0

RESULT 10  
 US-09-198-723A-118

Sequence 118, Application US/09198723A  
 Patent No. 6211338

GENERAL INFORMATION:  
 APPLICANT: Malcolm, Bruce  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Taremi, Shahriar S.  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Weber, Patricia  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Yao, Nanhua  
 TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus  
 TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide  
 NUMBER OF SEQUENCES: 123  
 CURRENT APPLICATION DATA:  
 CORRESPONDENCE ADDRESS:  
 STREET: 2000 Galloping Hill Road  
 CITY: Kenilworth  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 07030  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: Power Macintosh  
 OPERATING SYSTEM: 8.0.1  
 SOFTWARE: Microsoft Word 6.0.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US09/198,723A  
 FILING DATE: 24 NOV 1998  
 CLASIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLaughlin, Jaye P.  
 REGISTRATION NUMBER: 41,211  
 REFERENCE/DOCKET NUMBER: JB0800  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908) 298-5056  
 TELEFAX: (908) 298-5388  
 INFORMATION FOR SEQ ID NO: 119:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1941 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 US-09-198-723A-118

Alignment Scores:  
 Pred. No.: 3e-10 Length: 1941  
 Score: 19.00 Matches: 19  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14.29% Indels: 0

DB: 3 Gaps: 0 ; GENERAL INFORMATION:  
 US-09-638-693-36 (1-133) x US-09-198-723A-119 (1-1941) ; APPLICANT: Malcolm, Bruce  
 ; Taremi, Shahriar S.  
 ; Weber, Patricia

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
 Db 1876 CTCACCCACCCATAACCAAAATACATGGATCATGGATCATGGATCATGGAGGTC 1932

RESULT 12

GENERAL INFORMATION:  
 US-09-198-723A-120  
 Sequence 120, Application US/09198723A  
 Patent No. 6211338

GENERAL INFORMATION:  
 APPLICANT: Weber, Patricia  
 APPLICANT: Taremi, Shahriar S.  
 APPLICANT: Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus NS3 Protease and NS4A Cofactor Peptide

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:  
 ADDRESS: Schering-Plough Corp.  
 STREET: 2000 Galloping Hill Road  
 CITY: Kenilworth  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 07030

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: Power Macintosh  
 OPERATING SYSTEM: 8.0.1  
 SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/684,881  
 FILING DATE: 06-Oct-2000  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/09/198,723  
 FILING DATE: 24 Nov 1998  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLaughlin, Jaye P.  
 REGISTRATION NUMBER: 41,211  
 REFERENCE/DOCKET NUMBER: JB0800  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908)298-5056  
 TELEFAX: (908)298-5388  
 NAME/KEY: CDS  
 LOCATION: 1-1941  
 SEQUENCE DESCRIPTION: SEQ ID NO: 116:  
 US-09-684-881-116

Alignment Scores:  
 Pred. No.: 3e-10 Length: 1941  
 Score: 19.00 Matches: 19 ; Length: 1941  
 Percent Similarity: 100.00% Conservat: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14.29% Indels: 0  
 DB: 4 Gaps: 0

RESULT 14

US-09-638-693-36 (1-133) x US-09-684-881-116 (1-1941)

Sequence 117, Application US/09684881  
 Patent No. 6653127

GENERAL INFORMATION:  
 APPLICANT: Malcolm, Bruce  
 Taremi, Shahriar S.  
 Weber, Patricia

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
 Db 1876 CTCACCCACCCATAACCAAAATACATGGATCATGGATCATGGAGGTC 1932

RESULT 13

US-09-684-881-116  
 Sequence 116, Application US/09684881  
 Patent No. 6653127

GENERAL INFORMATION:  
 APPLICANT: Weber, Patricia  
 Taremi, Shahriar S.  
 Weber, Patricia

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
 Db 1876 CTCACCCACCCATAACCAAAATACATGGATCATGGATCATGGAGGTC 1932

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Schering-Plough Corp.  
 STREET: 2000 Galloping Hill Road  
 CITY: Kenilworth  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 07030  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: Power Macintosh  
 OPERATING SYSTEM: 8.0.1  
 SOFTWARE: Microsoft Word 6.0.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/684,881  
 FILING DATE: 06-Oct-2000  
 CLASSIFICATION: <Unknown>  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/09/198,723  
 FILING DATE: 24 NOV 1998  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLaughlin, Jaye P.  
 REGISTRATION NUMBER: 41,211  
 REFERENCE/DOCKET NUMBER: JB0800  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908)298-5056  
 TELEFAX: (908)298-5388  
 INFORMATION FOR SEQ ID NO: 118:  
 LENGTH: 1941 base pairs  
 SEQUENCE CHARACTERISTICS:  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 US-09-684-881-118  
 SEQUENCE DESCRIPTION: SEQ ID NO: 118:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 1941 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 SEQUENCE DESCRIPTION: SEQ ID NO: 117:  
 US-09-684-881-117  
 Search completed: February 27, 2004, 22:50:43  
 Job time : 68 secs

Alignment Scores:  
 Pred. No.: 3e-10 Length: 1941  
 Score: 19.00 Matches: 19  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 14.29% Indels: 0  
 Db: 4 Gaps: 0  
 US-09-638-693-36 (1-133) x US-09-684-881-118 (1-1941)  
 Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
 Db 1876 CTCACCCACCCATAACAAATAACATGGATGTCGGCCACCTGGGTC 1932

RESULT 15  
 US-09-684-881-118

Sequence 118, Application US/09684881

Patent No. 6653127

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce  
 Taremi, Shahriar S.  
 Weber, Patricia  
 Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus  
 NUMBER OF SEQUENCES: 123  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Schering-Plough Corp.  
 STREET: 2000 Galloping Hill Road  
 CITY: Kenilworth  
 STATE: New Jersey  
 ZIP: 07030

COMPUTER READABLE FORM:  
 COMPUTER: Power Macintosh  
 OPERATING SYSTEM: 8.0.1  
 SOFTWARE: Microsoft Word 6.0.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/684,881  
 FILING DATE: 06-Oct-2000  
 CLASSIFICATION: <Unknown>  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/09/198,723  
 FILING DATE: 24 NOV 1998  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McLaughlin, Jaye P.  
 REGISTRATION NUMBER: 41,211  
 REFERENCE/DOCKET NUMBER: JB0800  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (908)298-5056  
 TELEFAX: (908)298-5388  
 INFORMATION FOR SEQ ID NO: 118:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1941 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..1941  
 US-09-684-881-118  
 SEQUENCE DESCRIPTION: SEQ ID NO: 118:

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 27, 2004, 22:44:55 ; Search time 252 Seconds  
(without alignments)

Perfect score: 133  
Sequence: 1 QNEICLTHPITR7MACMSA.....VIBPVITNWQKLEAFWHRK 133  
Title: US-09-638-693-36  
Scoring table: OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Egapop 6.0 , Egapext 7.0  
Delop 6.0 , Delext 7.0  
Searched: 2353733 seqs, 180373377 residues  
Word size: 1  
Total number of hits satisfying chosen parameters: 4700934  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Listing first 45 summaries

Command line parameters:

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-MODEL=frame+_p2n.model -DEV=x1h
-O=/cgn2_1/USPTO_spool/US09638693/runat_24022004_135650_6761/app_query.fasta_1..327
-DB=Published_Applications_NA -QFORMAT=astap -SUFFIX=mpb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo
-TRANS=human-40_cdi -LIST=45 -DOCALLIG=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 MODE=LOCAL -OUTFORMAT=proto -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000 -USER=US09638693 @CGN 1 1.164 @runat 24022004_135650_6761
-NCPU=6 -ICPU=3 -NO MMVA -LARGEQUERY -NEG SCORES=0 -WAIT 100 -DSBBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=10 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELEXT=7

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Database : Published Applications NA:\*

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1: /cgn2_6/podata/2/pubnra/US07_PUBCOMB.seq:*
2: /cgn2_6/podata/2/pubnra/US06_NEW_PUB.seq:*
3: /cgn2_6/podata/2/pubnra/US05_NEW_PUB.seq:*
4: /cgn2_6/podata/2/pubnra/US06_PUBCOMB.seq:*
5: /cgn2_6/podata/2/pubnra/US07_NEW_PUB.seq:*
6: /cgn2_6/podata/2/pubnra/PECTUS_PUBCOMB.seq:*
7: /cgn2_6/podata/2/pubnra/US08_NEW_PUB.seq:*
8: /cgn2_6/podata/2/pubnra/US08_PUBCOMB.seq:*
9: /cgn2_6/podata/2/pubnra/US09_PUBCOMB.seq:*
10: /cgn2_6/podata/2/pubnra/US09_PUBCOMB.seq:*
11: /cgn2_6/podata/2/pubnra/US09C_PUBCOMB.seq:*
12: /cgn2_6/podata/2/pubnra/US09_NEW_PUB.seq:*
13: /cgn2_6/podata/2/pubnra/US10A_PUBCOMB.seq:*
14: /cgn2_6/podata/2/pubnra/US10B_PUBCOMB.seq:*
15: /cgn2_6/podata/2/pubnra/US10C_PUBCOMB.seq:*
16: /cgn2_6/podata/2/pubnra/US10_NEW_PUB.seq:*
17: /cgn2_6/podata/2/pubnra/US60_NEW_PUB.seq:*
18: /cgn2_6/podata/2/pubnra/US60_PUBCOMB.seq:*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULTS

RESULT 1  
US-09-638-693-36

SEQUENCE 35, Application US09899046  
/ GENERAL INFORMATION:  
/ COMPUTER READABLE FORM:  
/ MEDIUM TYPE: Floppy disk  
/ COMPUTER: IBM PC compatible  
/ OPERATING SYSTEM: PC-DOS/MS-DOS  
/ SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
/ CURRENT APPLICATION DATA:  
/ APPLICATION NUMBER: US09/899, 046  
/ FILING DATE:  
/ PRIOR APPLICATION DATA:  
/ APPLICATION NUMBER: 08/362, 455  
/ FILING DATE:  
/ INFORMATION FOR SEQ ID NO: 35:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 401 base pairs  
/ TYPE: nucleic acid

SUMMARIES

Result No.	Query	Match Length	DB ID	Description
45	18	13.5	7992	15 US-10-434-842-15
44	18	13.5	7992	15 US-10-434-842-15
43	18	13.5	7992	15 US-10-434-842-15
42	18	13.5	7992	15 US-10-434-842-15
41	18	13.5	7992	15 US-10-434-842-15
40	18	13.5	7992	15 US-10-434-842-15
39	18	13.5	7992	15 US-10-434-842-15
38	18	13.5	7992	15 US-10-434-842-15
37	18	13.5	7992	15 US-10-434-842-15
36	18	13.5	7992	15 US-10-434-842-15
35	18	13.5	7992	15 US-10-434-842-15
34	18	13.5	7992	15 US-10-434-842-15
33	18	13.5	7992	15 US-10-434-842-15
32	18	13.5	6189	14 US-10-434-842-15
31	19	14.3	13910	10 US-09-919-301-1
30	19	14.3	13910	10 US-09-919-301-1
29	19	14.3	9275	14 US-10-259-275-19
28	19	14.3	1485	10 US-09-899-046-197
27	19	14.3	13910	10 US-09-899-046-197
26	19	14.3	13910	10 US-09-899-046-197
25	19	14.3	9413	10 US-09-827-88-6
24	19	14.3	9275	14 US-10-191-966-1
23	19	14.3	1485	10 US-09-878-281-199
22	19	14.3	1485	10 US-09-878-281-199
21	19	14.3	13910	10 US-09-919-301-1
20	19	14.3	13910	10 US-09-919-301-1
19	14.3	9413	10 US-10-191-966-1	
18	19	14.3	13910	10 US-09-919-301-1
17	19	14.3	13910	10 US-09-919-301-1
16	19	14.3	13910	10 US-09-919-301-1
15	19	14.3	13910	10 US-09-919-301-1
14	19	14.3	13910	10 US-09-919-301-1
13	19	14.3	13910	10 US-09-919-301-1
12	19	14.3	13910	10 US-09-919-301-1
11	19	14.3	13910	10 US-09-919-301-1
10	19	14.3	13910	10 US-09-919-301-1
9	19	14.3	13910	10 US-09-919-301-1
8	19	14.3	13910	10 US-09-919-301-1
7	19	14.3	13910	10 US-09-919-301-1
6	19	14.3	13910	10 US-09-919-301-1
5	19	14.3	13910	10 US-09-919-301-1
4	19	14.3	13910	10 US-09-919-301-1
3	19	14.3	13910	10 US-09-919-301-1
2	19	14.3	13910	10 US-09-919-301-1
1	19	14.3	13910	10 US-09-919-301-1

ALIGNMENTS

STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 IMMEDIATE SOURCE:  
 CLONE: BR36-20-164  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 3 .. 401  
 S-09-899-046-35

Alignment Scores:  
 Alignment Scores: 4.79e-134  
 Score: 133.00  
 SearcCent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 100.00%  
 DB: 10

US-09-638-693-36 (1-133) x US-09-899-046-35 (1-401)

Length: 401  
 Matches: 133  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

Alignment Scores:  
 Alignment Scores: 4.79e-134  
 Pred. No.: 4.79e-134  
 Score: 133.00  
 Percent Similarity: 100.00%  
 Best Local Similarity: 100.00%  
 Query Match: 100.00%  
 DB: 10

Length: 401  
 Matches: 133  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-35 (1-401)

Length: 401  
 Matches: 133  
 Conservative: 0  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

Qy 1 GluAsnGluIleCysLeuThrHisProLeuThrLysTyrIleMetAlaCysMetSerAla 20  
 Db 3 CAAATGAAATCGTGTGACACCCCCATACAAATACTGGCATGCTAGTCAGCT 62

21 AspLeuGluValIleThrThrSerThrValLeuLeuGlyGlyValLeuAlaLeuAla 40  
 Db 63 GATCTGGAAAGTAACCAAGCAACCTGGTTTCGCTGGAAGGGTCCTGGGCCCTAGC 122

41 AlaTyrCysLeuSerValGlyCysValValLeuGlyHistLeuGlyGlyLys 60  
 Db 123 GCCTACTGCTGTCAGTGGTGTGCTGATGCTGGTCAATATCAGCTGGGGGZAG 182

61 ProAlaLeuValProAspLysGluValLeuTyrGlnGlnTrpAspGluMetGluGluCys 80  
 Db 183 CGGCATCTGTCAGCAAAAGGGTGTGATGAGATGGAGAGTC 242

81 SerGlnAlaAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPhenylsGlyLys 100  
 Db 243 TCACAAAGTGCCCCATATTCGACAAAGCTCACGTTAAAGCTTCAAGGGAAA 302

101 ValLeuGlyLeuLeuGlnAlaGlnValLeuAlaValLeuGluProIleValThr 120  
 Db 303 GTCCCTGGATGCTGCGAGGCCACCAACAAACAAACAGCTGCTATGACCATAGTAACT 362

121 ThrAsnTrpGlnLysLeuGlnAlaPheTrpHisLysHis 133  
 Db 363 ACCACTGGAAAAGCTGAGGCCCTTGGCAAGCAT 401

RESULT 3  
 US-09-878-281-35  
 Sequence 35, Application US/09878281  
 Publication No. US20030032005A1  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/878, 281  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362, 455  
 FILING DATE:  
 INFORMATION FOR SEQ ID NO: 35:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 401 base pairs

US-09-899-046-37  
 Sequence 37, Application US/09899046  
 Publication No. US20030008274A1  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/899, 046  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362, 455  
 FILING DATE:  
 INFORMATION FOR SEQ ID NO: 37:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 401 base pairs

LENGTH: 401 base pairs  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 IMMEDIATE SOURCE:  
 CLONE: BR36-20-166  
 FEATURE: CDS  
 NAME/KEY: CDS  
 LOCATION: 3 .. 401  
 US-09-899-046-37

Alignment Scores:  
 Pred. No.: 2.43e-36  
 Score: 98.00  
 Percent Similarity: 98.51%  
 Best Local Similarity: 98.51%  
 Query Match: 73.68%  
 DB: 10  
 US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

Length: 401  
 Matches: 132  
 Conservative: 0  
 Mismatches: 1  
 Indels: 0  
 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

Length: 401  
 Matches: 132  
 Conservative: 0  
 Mismatches: 1  
 Indels: 0  
 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

Qy 1 GlnAsnGluileCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
 Db 3 CAAATGAAATCTGCTGACACCCCCATACAAATTATGCCATGATGTCAGT 62  
 Qy 21 AspLeuGluValThrThrSerThrThrValLeuGlyValLeuAlaAlaAla 40  
 Db 63 GATCTGAAATGTAACCAACGACCTGGTTCAGCTGGGTTCTGGGCCCTAGCG 122  
 Qy 41 AlaTyrSylLeuSerValGlyCysValValLeuIleGlyHisIleGluLeuGly 60  
 Db 123 GCCTACTGCTTCAGTCGTTGTTGATGTTGATGCTGGCTATATGAGCTGGGCAAG 182  
 Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80  
 Db 183 CGGCATCTGTCAGAACAGGTCTGATGATGAGATGAGATGAGATGTC 242  
 Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnInpheLysGly-Ly 100  
 Db 243 TCACAACTGCCCATATATGCAACAGCTCAGGTGATAGCTCAGATGTCAA-GAAAAA 301  
 Qy 100 sValLeuGlyLeuLeuGlnArgAlaIleGlnGlnAlaValLeuGluProIleValTh 120  
 Db 302 AGTCCTGGATGCTGAGGCCACCCAAACACAGCTCATGAGCCATAGTAAC 361  
 Qy 120 rThrAsnTrpGlnLysLeuGluAlaPheThrPhisLysHis 133  
 Db 362 TACCAACTGGCAAAAGCTTGGACACAGCAT 401

RESULT 4  
 US-09-899-046-39  
 Sequence 39, Application US/09899046  
 Publication No. US20030008274A1  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOSS-MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/899,046  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/362,455  
 FILING DATE:  
 INFORMATION FOR SEQ ID NO: 39:

RESULT 5  
 US-09-898-281-37  
 Sequence 37, Application US/09878281  
 Publication No. US2001003205A1  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOSS-MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/878,281  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362,455  
 FILING DATE:

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:

LENGTH: 401 base pairs

TYPE: nucleic acid

STRANDBNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

IMMEDIATE SOURCE:

CLONE: BR36-20-166

FEATURE:

NAME/KEY: CDS

LOCATION: 3..401

US-09-878-281-37

Alignment Scores:

Pred. No.:	Length:	Score:	Length:	Score:
Score:	401	98.00	401	98.00
Percent Similarity:	132	98.51%	Percent Similarity:	132
Best Local Similarity:	0	98.51%	Best Local Similarity:	0
Query Match:	0	98.51%	Query Match:	0
DB:	2	98.51%	DB:	2
DB:	10	98.51%	DB:	10
DB:	0	98.51%	DB:	0

US-09-638-693-36 (1-133) × US-09-878-281-37 (1-401)

Qy 1 GlnAsnGluLeuCysLeuThrHisProLeuThrLysTrpIleMetAlaCysMetSerAla 20

Db 3 CAAATGAAATCTGTCGACACCCCCATCACAAATACATGGATGATGAGCT 62

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaAlaLeuAla 40

Db 63 GATCTGGAGTAACCAAGCACTGGTTTGCCTGGGGCTCCGGCCCTPAGG 122

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuLeuGlyIleGluLeuGlyLys 60

Db 123 GCCTACTCTGTCAGTCGGTGTGTTGTTGATCGCTCATATCGCTGGGGAAAG 182

Qy 61 ProAlaLeuValProAspLeuGluValLeuIleGluLeuGlyIleGluLeuGly 80

Db 183 CGGCCATCTGTCAGCAAGAACAGGTGTTGATCAAAATAGATGAGTGGAGGTGC 242

Qy 81 SerGlnAlaAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPhenLysGly-Lys 100

Db 243 TCACAGCTGCCCATATACTGACAGCTCAGTGTAGTGTACAGTCAA-GGAAA 301

Qy 100 svalLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProIleValTh 120

Db 302 AGCCCTGGATGCTGCAAGGCCACCAAGCAACAGCTCATGGCCCCATAGTAAC 361

Qy 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysGluAlaPheTrpHisLys 133

Db 362 TACCAACTGGCAAAAGCTTGGCCCTTTGGCAACAAAGCAT 401

RESULT 6

US-09-878-281-39

Sequence 39, Application US/09878281

Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE: US-09-878-281-39

INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:

LENGTH: 401 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

IMMEDIATE SOURCE:

CLONE: BR36-20-165

FEATURE:

NAME/KEY: CDS

LOCATION: 3..401

US-09-878-281-39

Alignment Scores:

Pred. No.:	Length:	Score:	Length:	Score:
Score:	2.43e-96	98.00	2.43e-96	98.00
Percent Similarity:	0	98.51%	Percent Similarity:	98.51%
Best Local Similarity:	1	98.51%	Best Local Similarity:	98.51%
Query Match:	2	98.51%	Query Match:	73.68%
DB:	1	98.51%	DB:	10
DB:	2	98.51%	DB:	0

US-09-638-693-36 (1-133) × US-09-878-281-39 (1-401)

Qy 1 GlnAsnGluLeuCysLeuThrHisProLeuThrLysTrpIleMetAlaCysMetSerAla 20

Db 3 CAAATGAAATCTGTCGACACCCCCATCACAAATACATGGATGATGAGCT 62

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaAlaLeuAla 40

Db 63 GATCTGGAGTAACCAAGCACTGGTTTGCCTGGGGCTCCGGCCCTPAGG 122

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuLeuGlyIleGluLeuGlyLys 60

Db 123 GCCTACTCTGTCAGTCGGTGTGTTGATCGCTCATATCGCTGGGGAAAG 182

Qy 61 ProAlaLeuValProAspLeuGluValLeuIleGluLeuGlyIleGluLeuGly 80

Db 183 CGGCCATCTGTCAGCAAGAACAGGTGTTGATCAAAATAGATGAGTGGAGGTGC 242

Qy 81 SerGlnAlaAlaAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPhenLysGly-Lys 100

Db 243 TCACAGCTGCCCATATACTGACAGCTCAGTGTAGTGTACAGTCAA-GGAAA 301

Qy 100 svalLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProIleValTh 120

Db 302 AGCCCTGGATGCTGCAAGGCCACCAAGCAACAGCTCATGGCCCCATAGTAAC 361

Qy 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysGluAlaPheTrpHisLys 133

Db 362 TACCAACTGGCAAAAGCTTGGCCCTTTGGCAACAAAGCAT 401

RESULT 7

US-09-879-046-222

Sequence 222, Application US/09839046

Publication No. US2003008274A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

PRIOR APPLICATION DATA:







Alignment Scores :  
 Pred. No. : 1. 64e-42 Length: 367  
 Score: 48.00 Matches: 83  
 Percent Similarity: 97.65% Conservative: 0  
 Best Local Similarity: 97.65% Mismatches: 1  
 Query Match: 36.09% Indels: 2  
 DB: 14 0 Gaps: 0

RESULT 14  
 US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)

Qy 15 MetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrrpValLeuGlyGly 34  
 Db 26 AUGCAUGAUAGUUCAGUCGUAATCGTCCAACTGGCAATGGTGTGATCAACAAAGGGTGTGATG 1389

Qy 35 ValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGlyCysValValIleValGlyHis 54  
 Db 86 GUCCUCGCGCCATGGCAGCTACGGCAGCTACGGCAGCTACGGCAGCTACGGCAGCTACGGCAG 145

Qy 55 IleGluLeuGlyIleIleValProAspLeuGluValLeuIleGlnGlnIle 74  
 Db 146 AUTGAGCGGGGCGCAAGCCGAMU-CGUUCCAGAGAARGGUGUGUAAACAUAA 204

Qy 74 rAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleIle 94  
 Db 205 CGAUGAGUGAGGAGUCCUCGCAAGCGCCCCAUAAUZGAGAACAGUCACGURADGC 264

Qy 94 aHisGlnPhelys 98  
 Db 265 CCACCAAGUCAAG 277

RESULT 14  
 US-09-638-693-36 (1-133) x US-09-881-239-4 (1-2499)

Qy 58 GlyGlyLysProAlaIleValProAspLeuGluValLeuIleGlnGlnIleAspGluMet 77  
 Db 1330 GGGGCAAGCCGCAATCGTCCAACTGGTGTGATCAACAAAGGGTGTGATG 1389

Qy 78 GluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe 97  
 Db 1390 GAAGGTGCTCACAGCTGCCATATCGAACAGCTAACAGGTATAGTCACCGATTC 1449

RESULT 15  
 US-09-881-654-3  
 ; Sequence 3, Application US/09881654  
 ; Patent No. US20020146685A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CHIEN, David Y.  
 ; APPLICANT: ARCANDEL, Phillip  
 ; APPLICANT: TANDESKA, Laura  
 ; APPLICANT: COIT, Doris  
 ; APPLICANT: MEDINA-SELYBY, Angelica  
 ; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES  
 ; FILE REFERENCE: 2303-17039 / PP17039.002  
 ; CURRENT APPLICATION NUMBER: US/09/881,654  
 ; CURRENT FILING DATE: 2001-06-14  
 ; PRIOR APPLICATION NUMBER: 60/212,082  
 ; PRIOR FILING DATE: 2000-06-15  
 ; PRIOR APPLICATION NUMBER: 60/280,811  
 ; PRIOR FILING DATE: 2001-04-02  
 ; PRIOR APPLICATION NUMBER: 60/280,867  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 3  
 ; LENGTH: 3297  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)...(3297)  
 ; US-09-881-654-3

Alignment Scores:  
 Pred. No.: 4.29e-34 Length: 3297  
 Score: 41.00 Matches: 41  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 30.83% Indels: 0  
 DB: 9 Gaps: 0

RESULT 14  
 US-09-638-693-36 (1-133) x US-09-881-654-3 (1-3297)

Qy 58 GlyGlyLysProAlaIleValProAspLeuGluValLeuIleGlnGlnIleAspGluMet 77  
 Db 2242 GGGGCAAGCCGCAATCGTCCAACTGGTGTGATCAACAAAGGGTGTGATG 2301

Qy 78 GluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe 97  
 Db 2302 GAAGGTGCTCACAGCTGCCATATCGAACAGCTAACAGGTATAGTCACCGATTC 2361

Alignment Scores:  
 Pred. No.: 3.33e-34 Length: 2499  
 Score: 41.00 Matches: 41  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Location: (1)...(2487)  
 US-09-881-239-4

Qy 98 Lys 98  
 Db 2362 AAG 2364

Search completed: February 27, 2004, 23:48:54  
Job time : 255 secs

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:46:44 ; Search time 22 Seconds (without alignments)

312.102 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEITLTHPTKYIMACMSA.....VIEPIVTINWQKLEAFWHKH 133

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 10.0% Listing first 45 summaries

## Database : Issued\_Patents\_A:\*

1: /cgn2\_6/ptodata/2/iaa/5A\_COMBO Dep:\*

2: /cgn2\_5/ptodata/2/iaa/5B\_COMBO Dep:\*

3: /cgn2\_6/ptodata/2/iaa/6A\_COMBO Dep:\*

4: /cgn2\_6/ptodata/2/iaa/6B\_COMBO Dep:\*

5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMBO Dep:\*

6: /cgn2\_6/ptodata/2/iaa/backfiles.Dep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	572	81.8	128	1	US-09-244-116B-17		Sequence 17, Appl
2	53.9	77.1	3012	3	US-08-811-566-2		Sequence 2, Appl
3	53.9	77.1	3012	4	US-09-034-756-2		Sequence 2, Appl
4	53.4	76.4	313	2	US-08-483-695-45		Sequence 45, Appl
5	53.4	76.4	313	2	US-07-965-285-45		Sequence 45, Appl
6	53.4	76.4	313	2	US-08-487-231-45		Sequence 45, Appl
7	53.4	76.4	313	3	US-09-201-912-45		Sequence 45, Appl
8	53.4	76.4	382	3	US-08-444-818-68		Sequence 68, Appl
9	53.4	76.4	460	3	US-08-444-818-20		Sequence 20, Appl
10	53.4	76.4	592	3	US-08-867-611-47		Sequence 21, Appl
11	53.4	76.4	592	4	US-09-690-359-47		Sequence 47, Appl
12	53.4	76.4	594	3	US-08-867-611-48		Sequence 48, Appl
13	53.4	76.4	594	4	US-09-690-359-48		Sequence 48, Appl
14	53.4	76.4	597	3	US-08-867-611-16		Sequence 16, Appl
15	53.4	76.4	597	4	US-09-690-359-16		Sequence 16, Appl
16	53.4	76.4	597	5	PCT-US92-06985A-21		Sequence 21, Appl
17	53.4	76.4	599	3	US-08-867-611-18		Sequence 18, Appl
18	53.4	76.4	599	4	US-09-690-359-18		Sequence 18, Appl
19	53.4	76.4	599	5	PCT-US92-06985A-23		Sequence 23, Appl
20	53.4	76.4	613	3	US-08-867-611-49		Sequence 49, Appl
21	53.4	76.4	613	4	US-09-690-359-49		Sequence 49, Appl
22	53.4	76.4	739	3	US-08-444-818-148		Sequence 148, Appl
23	53.4	76.4	859	3	US-08-444-818-30		Sequence 30, Appl
24	53.4	76.4	971	3	US-08-867-611-52		Sequence 52, Appl
25	53.4	76.4	971	4	US-09-690-359-52		Sequence 53, Appl
26	53.4	76.4	973	3	US-08-867-611-53		Sequence 53, Appl
27	53.4	76.4	973	4	US-09-690-359-53		Sequence 53, Appl

## ALIGNMENTS

RESULT 1  
US-09-244-116B-17  
; Sequence 17, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; APPLICANT: Yap, Peng L.  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244-116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION NUMBER: PCT/GB92/02143  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; RECOMMENDATION NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 128 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: Yes  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; ORGANISM: Hepatitis-C virus  
; US-09-244-116B-17  
Query Match 81.8%; Score 572; DB 1; Length 128;

Best Local Similarity 94.9%; Pred. No. 3 5e-59;  
 Matches 111; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
 RESULT 3  
 US-09-034-756-2

Qy 8 HPITKYIMACMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHTELGKPAIVPDK 67  
 Db 2 HPXXXKYMNCMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHTELGKPAIVPDK 61

APPLICANT: Rice, Charles et al.  
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: HOWELL & HAFFERKAMP, L.C.  
 STREET: 7733 FORSYTH BLVD., SUITE 1400  
 CITY: ST. LOUIS  
 STATE: MO  
 COUNTRY: USA  
 ZIP: 63105

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/034,756

FILING DATE: 04-May-1998

CLASIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:  
 NAME: HOLLAND, DONALD R.  
 REGISTRATION NUMBER: 35,197

REFERENCE/DOCKET NUMBER: 6029-4831

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 314-727-5188

TELEFAX: 314-727-6092

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 3012 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

FRAGMENT TYPE: N-terminal

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-034-756-2

Query Match 77.1%; Score 539; DB 3;  
 Best Local Similarity 75.9%; Pred. No. 1 8e-53;  
 Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

RESULT 4  
 US-08-483-695-45

Qy 1 QNEICLTHPTKYMACMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHTELGK 60  
 Db 1632 QNEVTLTHPTKYMTCMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHTELGK 1691

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Nucleotide and Peptide Sequences of a

Db 1692 PAIPPREVLYQFDEMECSQHLPYIEQGMMLAQFQKALGLIQTASRQAEVTPAVQ 1751

APPLICANT: Kramsdorf, Dina  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1752 TNWQKLEFWKXH 1764

APPLICANT: Brechot, Christian  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1753 TNWQKLEFWKXH 1763

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Nucleotide and Peptide Sequences of a

Db 1754 TNWQKLEFWKXH 1762

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1755 TNWQKLEFWKXH 1761

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1756 TNWQKLEFWKXH 1760

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1757 TNWQKLEFWKXH 1759

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1758 TNWQKLEFWKXH 1758

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1759 TNWQKLEFWKXH 1757

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1760 TNWQKLEFWKXH 1756

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1761 TNWQKLEFWKXH 1755

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1762 TNWQKLEFWKXH 1754

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1763 TNWQKLEFWKXH 1753

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1764 TNWQKLEFWKXH 1752

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1765 TNWQKLEFWKXH 1751

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1766 TNWQKLEFWKXH 1750

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1767 TNWQKLEFWKXH 1749

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1768 TNWQKLEFWKXH 1748

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1769 TNWQKLEFWKXH 1747

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1770 TNWQKLEFWKXH 1746

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

Db 1771 TNWQKLEFWKXH 1745

APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
 STREET: 1300 I Street, N.W.  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20005-3315  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/483,695  
 FILING DATE: 05-08-483-695-45  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US/07/965,285  
 FILING DATE: 18-MAR-1993  
 APPLICATION NUMBER: FR 91 06 882  
 FILING DATE: 06-JUN-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Meyers, Kenneth J.  
 REGISTRATION NUMBER: 25,146  
 REFERENCE/DOCKET NUMBER: 05286-0001-00000  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-408-4400  
 TELEFAX: 202-408-4400  
 INFORMATION FOR SEQ ID NO: 45:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 313 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide

Query Match 76.4%; Score 534; DB 2; Length 5-07-965-285-45  
 Best Local Similarity 74.4%; Pred. No. 3,3e-54;  
 Matches 99; Conservative 12; Mismatches 22; Index 5-07-965-285-45  
 1 QNEQICLTHITKYMAGMDLIEVTSTWVLLGGVLAALAYCIS  
 178 QNEITLTHPTVTKYIMTCMSADLEVVTSTWVLLGGVLAALAYCIS  
 61 PAIVDKEVLYQQVDEBMEEGCSQAAPYIEQRQVIAHQFKGRVGLGII  
 238 PAIIFDREVLREPEEMECSQHFLPYIEQMMILAKQFRQKALGII  
 121 TNWQOLEAFWAKH 133  
 298 TNWQOLEFWAKH 310

RESULT 5  
 5-07-965-285-45  
 Sequence 45, Application US/07965285  
 Patent No. 5879914  
 GENERAL INFORMATION:  
 APPLICANT: Brechot, Christian  
 APPLICANT: Kremserdorf, Dina  
 APPLICANT: Porchon, Colette  
 TITLE OF INVENTION: Nucleotide and Peptide Sequences  
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic Applications  
 NUMBER OF INVENTION: Applications  
 NUMBER OF SEQUENCES: 46  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner  
 STREET: 1300 I Street, N.W.  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA

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ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentInRelease #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-965-285-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;
Qy 1 QNEICITHPITKYIMACMSADLETVTSTWLLGVIAALAYCLSGVLLGK 60
Db 178 QNEITIHPITKYIMTCMSADLETVTSTWLLGVIAALAYCLSGVLLGK 237
Qy 61 PAIVDPKEVLYQQYDEMERCSQAAPYIEAQVIAHOFKGKVYGLIQRATOCQAVIPEIVT 120
Db 238 PAIVDPREVYREFDMEMERCSQHLPYIEQNMMLAEFQKALGLLSTATSROAEVIAPEV 297
Qy 121 TNWQKLEAFWHKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 6
US-08-487-231-45
; Sequence 45, Application US/08487231
; Patent No. 5919454
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremsdorff, Diana
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; TITLE OF INVENTION: Applications
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentInRelease #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487-231
; FILING DATE: 07-JUNE-1995

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CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/965,285  
 FILING DATE: 18-MAR-1993  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: FR 91 06 882  
 FILING DATE: 06-JUN-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Meyers, Kenneth J.  
 REGISTRATION NUMBER: 25,146  
 REFERENCE/DOCKET NUMBER: 05286-0001-00000  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-408-4000  
 TELEFAX: 202-408-4400  
 INFORMATION FOR SEQ ID NO: 45:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 313 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-487-231-45

Query Match 76.4%; Score 534; DB 3; Length 313;  
 Best Local Similarity 74.4%; Pred. No. 3.3e-54;  
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEICLTHPITKYMAGMSADLEVTSTWVLGGVNLALAAYCLSGCVCVIGHIGGK 60  
 Db 178 QNEICLTHPITKYMAGMSADLEVTSTWVLGGVNLALAAYCLSGCVCVIGHIGGK 237

Qy 61 PAIPDKEVLYQQYDEMECSQHLPYEQGMMLAEQFKQALGLQTAQRQEVIAFAVE 133  
 Db 178 QNEICLTHPITKYMAGMSADLEVTSTWVLGGVNLALAAYCLSGCVCVIGHIGGK 60  
 Db 298 TNWQKLETFWAKH 310

RESULT 8  
 US-08-444-818-68  
 Sequence 68, Application US/08444818  
 Patent No. 6150087

GENERAL INFORMATION:  
 APPLICANT: Chien, David Y.  
 ATTORNEY/AGENT INFORMATION:  
 Rutter, William J.  
 TITLE OF INVENTION: NABV Diagnostics and Vaccines  
 NUMBER OF SEQUENCES: 777

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Chiron Corporation  
 STREET: 4560 Horton Street  
 CITY: Emeryville  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94608-2916

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/444,818  
 FILING DATE:  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/403,590  
 FILING DATE: 14-MAR-1995

ATTORNEY/AGENT INFORMATION:  
 NAME: Harbin, Alisa A.  
 REFERENCE/DOCKET NUMBER: 0110-002  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (508)359-3876  
 TELEFAX: (508)359-3885  
 INFORMATION FOR SEQ ID NO: 68:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 382 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-444-818-68

CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/965,285  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:

Query Match Similarity 76.4%; Score 534; DB 3; Length 382;  
 Best Local Similarity 74.4%; Pred. No. 4.3e-54; Mismatches 12; Indels 0; Gaps 0;  
 Matches 99; Conservative 1; DB-08-444-818-20

Db 78 ONEICLTHPTVKYIMCSADLEVTSTWVLLGGVLAALAAAYCLSVGVVGHIELGGK 60  
 ONEITLTHPTVKYIMCSADLEVTSTWVLLGGVLAALAAAYCLSVGVVGVRLSGK 137

RESULT 10  
 US-08-867-611-47  
 Sequence 47, Application US/06867611  
 Patent No. 6172189  
 GENERAL INFORMATION:  
 APPLICANT: DEVARE, SUSHIL G  
 APPLICANT: DEGAI, SURESH M  
 APPLICANT: CASEY, JAMES M  
 APPLICANT: DAILEY, STEPHEN H  
 APPLICANT: DANSON, GEORGE J  
 APPLICANT: GUTIERREZ, ROBIN A  
 APPLICANT: LENIEWSKI, RICHARD R  
 APPLICANT: STEWART, JAMES L  
 APPLICANT: RUPPRECHT, KEVIN R  
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT  
 NUMBER OF SEQUENCES: 59

GENERAL INFORMATION:  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30

NUMBER OF SEQUENCES: 777  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Chiron Corporation  
 STREET: 4560 Horton Street  
 CITY: Emeryville  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94608-2916  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/444,818  
 FILING DATE: 2001-03-06  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/403,590  
 FILING DATE: 1995-03-14  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Harbin, Alisa A.  
 REGISTRATION NUMBER: 33-895  
 REFERENCE/DOCKET NUMBER: 0110.002  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (508)352-3876  
 TELEFAX: (508)359-3885  
 INFORMATION FOR SEQ ID NO: 20:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 460 amino acids  
 TYPE: amino acid  
 MOLECULE TYPE: protein

US-08-444-818-20

Query Match Similarity 76.4%; Score 534; DB 3; Length 460;  
 Best Local Similarity 74.4%; Pred. No. 5.5e-54; Mismatches 12; Indels 0; Gaps 0;  
 Matches 99; Conservative 1; DB-08-444-818-20

Db 162 ONEITLTHPTVKYIMCSADLEVTSTWVLLGGVLAALAAAYCLSVGVVGVRLSGK 60  
 ONEITLTHPTVKYIMCSADLEVTSTWVLLGGVLAALAAAYCLSVGVVGVRLSGK 221

RESULT 9  
 US-08-444-818-20  
 Sequence 20, Application US/08444818  
 Patent No. 6150087  
 GENERAL INFORMATION:  
 APPLICANT: Chien, David Y.  
 APPLICANT: Rutter, William J.  
 TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
 NUMBER OF SEQUENCES: 777  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Chiron Corporation  
 STREET: 4560 Horton Street  
 CITY: Emeryville  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94608-2916  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: 2000-06-01  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: 2000-06-01  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: 2000-06-01  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: 2000-06-01  
 APPLICATION NUMBER: US/07/572,822  
 FILING DATE: 24-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: 02-JUN-1997  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: 24-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/614,069  
 FILING DATE: 07-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/748,561  
 FILING DATE: 21-AUG-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/748,561  
 FILING DATE: 21-AUG-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/748,566  
 FILING DATE: 21-AUG-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: POREMBSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33-207  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-937-9556  
 INFORMATION FOR SEQ ID NO: 47:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 592 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide

US-08-867-611-47

Query Match 76.4%; Score 534; DB 3; Length 592;  
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;  
 Matches 99; Conservative 4; 12; Mismatches 22; Indels 0;  
 Gaps 0;

1 ONEICITHPKYIMACMSADLEVTSTWVLLGGVLAALANYCLSVGCVTVGHIELGGK 60  
 288 ONEITLTHPKYIMTACMSADLEVTSTWVGGVLAALAYCLSTNGCVTVGRVLSGK 347

61 PAIVDPKVEVYQQYDEMEETSSQAPTEEQAVIAHDFPKVTLGLQRATQQAVIEPIVT 120  
 348 PAIIPDREVLYREFDEMECSQHLPYEQGMMLAEQPKQAGLLOTASRAEVIAPAVQ 407

121 TNWQKLEAFFWKH 133  
 408 TNWQKLETFWAKH 420

RESULT 11  
 S-09-690-359-47  
 Sequence 47 Application US/09690359  
 Patent No. 6593083

GENERAL INFORMATION:  
 APPLICANT: DEVARE, SUSHIL G  
 DESAI, SURESH M  
 CASEY, JAMES M  
 DAILEY, STEPHEN H  
 DAWSON, GEORGE J  
 GUTIERREZ, ROBIN A  
 LESNIIEWSKI, RICHARD R  
 STEPHART, JAMES L  
 RUPPRECHT, KEVIN R

TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT  
 ANTIGENS

NUMBER OF SEQUENCES: 59

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/690,359  
 FILING DATE: 17-OCT-2000  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/867,611  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 07-NOV-1990  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991

ATTORNEY/AGENT INFORMATION:  
 NAME: POROMBSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33,207  
 COMMUNICATION NUMBER: 4834 US P6  
 TELECOMMUNICATION INFORMATION:

Query Match 76.4%; Score 534; DB 4; Length 592;  
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;  
 Matches 99; Conservative 12; Mismatches 22; Indels 0;  
 Gaps 0;

Qy 1 QNBICITHPKYIMACMSADLEVTSTWVLLGGVLAALAYCLSVGCVTVGHIELGGK 60  
 Db 288 QNBICITHPKYIMTACMSADLEVTSTWVGGVLAALAYCLSTNGCVTVGRVLSGK 347

Qy 61 PAIVDPKVEVYQQYDEMEETSSQAPTEEQAVIAHDFPKVTLGLQRATQQAVIEPIVT 120  
 Db 348 PAIIPDREVLYREFDEMECSQHLPYEQGMMLAEQPKQAGLLOTASRAEVIAPAVQ 407

RESULT 12  
 US-08-867-611-48  
 Sequence 48 Application US/08867611  
 Patent No. 6172189

GENERAL INFORMATION:  
 APPLICANT: DEVARE, SUSHIL G  
 APPLICANT: DESAI, SURESH M  
 APPLICANT: CASEY, JAMES M  
 APPLICANT: DAILEY, STEPHEN H  
 APPLICANT: DAWSON, GEORGE J  
 APPLICANT: GUTIERREZ, ROBIN A  
 APPLICANT: LESNIIEWSKI, RICHARD R  
 APPLICANT: STEPHART, JAMES L  
 APPLICANT: RUPPRECHT, KEVIN R  
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT  
 TITLE OF INVENTION: ANTIGENS  
 NUMBER OF SEQUENCES: 59  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/867,611  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 07-NOV-1990  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US/08/867,611  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 02-JUN-1997

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FOREMSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33,207  
 REFERENCE/DOCKET NUMBER: 4834.US.P6  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-937-9556  
 INFORMATION FOR SEQ ID NO: 48:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 594 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-867-611-48

Query Match 76.4%; Score 534; DB 3; Length 594;  
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;  
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 ONEQICLTHPIKYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 60  
 Db 290 ONEQICLTHPIKYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 349

Qy 61 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQBATQQAVIEPIVT 120  
 Db 350 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQBATQQAVIEPIVT 409

Qy 121 TNWQKLEFWKHH 133  
 Db 410 TNWQKLEFWKHH 422

RESULT 13  
 US-09-690-259-48  
 ; Sequence 48, Application US/09690359  
 ; Patent No. 6593083  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DEVARE, SUSHIL G  
 ; DESAI, SURESH M  
 ; CASEY, JAMES M  
 ; DAILEY, STEPHEN H  
 ; DAWSON, GEORGE J  
 ; LESNIEWSKI, ROBIN A  
 ; STEWART, JAMES L  
 ; RUPPRECHT, KEVIN R

TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS  
 NUMBER OF SEQUENCES: 59  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ONE ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-5500  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/690,359

FILING DATE: 17-Oct-2000  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/867,611  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 07-NOV-1990  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FOREMSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33,207  
 REFERENCE/DOCKET NUMBER: 4834.US.P6  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-937-9556  
 INFORMATION FOR SEQ ID NO: 48:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 594 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: Peptide  
 MOLECULE TYPE: Peptide  
 SEQUENCE DESCRIPTION: SEQ ID NO: 48:  
 US-09-690-359-48

Query Match 76.4%; Score 534; DB 4;  
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;  
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 ONEQICLTHPIKYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 60  
 Db 290 ONEQICLTHPIKYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 349

Qy 61 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQBATQQAVIEPIVT 120  
 Db 350 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQBATQQAVIEPIVT 409

Qy 121 TNWQKLEFWKHH 133  
 Db 410 TNWQKLEFWKHH 422

RESULT 14  
 US-08-867-611-16  
 ; Sequence 16, Application US/08867611  
 ; Patent No. 6172189  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DEVARE, SUSHIL G  
 ; APPLICANT: DESAI, SURESH M  
 ; APPLICANT: CASEY, JAMES M  
 ; APPLICANT: DAILEY, STEPHEN H  
 ; APPLICANT: DAWSON, GEORGE J  
 ; APPLICANT: GUTIERREZ, ROBIN A  
 ; APPLICANT: LESNIEWSKI, RICHARD R  
 ; APPLICANT: STEWART, JAMES L  
 ; APPLICANT: RUPPRECHT, KEVIN R  
 ; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS  
 ; NUMBER OF SEQUENCES: 59  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: ONE ABBOTT LABORATORIES  
 ; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2  
 ; CITY: ABBOTT PARK  
 ; STATE: IL  
 ; COUNTRY: USA  
 ; ZIP: 60064-5500  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/690,359

CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/867,611  
 FILING DATE: 02-JUN-1997  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE:  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 24-AUG-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 07-NOV-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991  
 ATTORNEY / AGENT INFORMATION:  
 NAME: POREMBSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33,207  
 REFERENCE/DOCKET NUMBER: 4834.US.P6

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-937-9556

INFORMATION FOR SEQ ID NO: 16:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 597 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-867-611-16

Qy 1 PAIYDKEYLYQQYDEMECSQARYPIEQAQVTAHQPKVKGILQRATQQAVIEPTV 120  
 Db 348 PAILPDREVLYREDEMEBCSQHLPYIEQGMMLAEQFRKGALGILQATASRQAEVIAPAVQ 407

Qy 121 TNWQKLEAFWKH 133  
 Db 408 TNWQKLEAFWKH 420

Qy 1 QNEICLTPITKYMAGNSADLEVTSTWLLGGVLAALAAAYCLSGCVCVYGHIEGGK 60  
 Db 288 QNEBTLTHVTKYIMTCMADLEVTSTWLVGGVLAALAAAYCLSTGCVVIVRVLSGK 347

Qy 61 PAIVPDKVLYQQYDEMECSQARYPIEQAQVTAHQPKVKGILQRATQQAVIEPTV 120  
 Db 348 PAIVPDKVLYQQYDEMECSQARYPIEQAQVTAHQPKVKGILQRATQQAVIEPTV 120

Qy 121 TNWQKLEAFWKH 133  
 Db 408 TNWQKLEAFWKH 420

RESULT 15  
 US-09-638-359-16  
 Sequence 16, Application US/09690359  
 Patent No. 6593083  
 GENERAL INFORMATION:  
 APPLICANT: DEVARE, SUSHIL G  
 DEBAL, SURESH M  
 CASEY, JAMES M



GenCore version 5.1.6  
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:48:29 ; Search time 33 Seconds  
 Perfect score: 699 ; (Without alignments)  
 Sequence: 1 QNEBICLTHPITKTYIMACMSA.....VIEPIVTTNNQKLEAFWHKH 133

Title: US-09-638-693-36  
 Scoring table: BLOSUM62  
 Gapext 0.5

Searched: 809742 sqqs, 211153259 residues

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing First 45 summaries

Published Applications AA:  
 1: /cgn2\_6/picodata/2/pubpa/US07\_PUBCOMB.pep:  
 2: /cgn2\_6/picodata/2/pubpa/US06\_PUBCOMB.pep:  
 3: /cgn2\_6/picodata/2/pubpa/US06\_NEW\_PUB.PEP:  
 4: /cgn2\_6/picodata/2/pubpa/US05\_PUBCOMB.pep:  
 5: /cgn2\_6/picodata/2/pubpa/US07\_NEW\_PUB.PEP:  
 6: /cgn2\_6/picodata/2/pubpa/US08\_PUBCOMB.pep:  
 7: /cgn2\_6/picodata/2/pubpa/US08\_NEW\_PUB.PEP:  
 8: /cgn2\_6/picodata/2/pubpa/US08\_PUBCOMB.pep:  
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 15: /cgn2\_6/picodata/2/pubpa/US10\_PUBCOMB.pep:  
 16: /cgn2\_6/picodata/2/pubpa/US10\_NEW\_PUB.PEP:  
 17: /cgn2\_6/picodata/2/pubpa/US60\_PUBCOMB.pep:  
 18: /cgn2\_6/picodata/2/pubpa/US60\_PUBCOMB.pep:  
 pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	699	100.0	133	10	US-09-899-046-36
2	699	100.0	133	10	US-09-878-281-40
3	691	98.9	133	10	US-09-899-046-36
4	691	98.9	133	10	US-09-899-046-40
5	691	98.9	133	10	US-09-878-281-38
6	691	98.9	133	10	US-09-899-046-34
7	691	98.9	209	10	US-09-899-046-223
8	691	98.9	209	10	US-09-878-281-223
9	672	96.1	133	10	US-09-899-046-32
10	672	96.1	133	10	US-09-899-046-34
11	672	96.1	133	10	US-09-878-281-32
12	672	96.1	133	10	US-09-878-281-34
13	572	81.8	128	14	US-10-396-94-17
14	539	77.1	3011	9	US-09-742-659-4
15	539	77.1	3011	10	US-09-891-834-3

RESULT 1  
 US-09-899-046-36 ; Application US/0989046  
 ; Publication No. US20030008214A1

GENERAL INFORMATION:  
 ; APPLICANT: New sequences of hepatitis C virus  
 ; TITLE OF INVENTION: New sequences of hepatitis C virus, prophylaxis and therapy.  
 ; NUMBER OF SEQUENCES: 2, Appli  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/899,046  
 ; FILING DATE:  
 ; PRIORITY APPLICATION NUMBER: 08/362,455  
 ; FILING DATE:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 133 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-899-046-36

Query Match 100.0%; Score 699; DB 10; Length 133;  
 Best Local Similarity 100.0%; Pred. No. 4.4e-72;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKTYIMACMSADLEVTSTWLLGGVLAAYCLSGVWVIGHTELGK 60  
 Db 1 ONEICLTHPTKTYIMACMSADLEVTSTWLLGGVLAAYCLSGVWVIGHTELGK 60

Qy 61 PAIVPDKREVLQQYDEECSQAAPIEQAQVIAHQKGRKVGLQRAQQAVIEPIV 120  
 Sequence 3, Appli

RESULT 2  
 US-09-878-281-36  
 / Sequence 36, Application US/09878281  
 / Publication No. US20030032005A1  
 / GENERAL INFORMATION:  
 / APPLICANT:  
 / TITLE OF INVENTION: New sequences of hepatitis C virus  
 / NUMBER OF SEQUENCES: 270  
 / COMPUTER: IBM PC compatible  
 / MEDIUM: Floppy disk  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/09/878,281  
 / FILING DATE:  
 / PRIORITY APPLICATION DATA:  
 / APPLICATION NUMBER: 08/362,455  
 / FILING DATE:  
 / INFORMATION FOR SEQ ID NO: 36:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 133 amino acids  
 / TYPE: amino acid  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: protein  
 US-09-878-281-36

Query Match 100.0%; Score 699; DB 10; Length 133;  
 Best Local Similarity 100.0%; Pred. No. 4.4e-22; Mismatches 0; Indels 0; Gaps 0;  
 Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAALAYCLSGVIVGHIELGGK 60  
 Db 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAALAYCLSGVIVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120  
 Db 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120

Qy 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120  
 Db 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133  
 Db 121 TNWQKLEAFWHKH 133

RESULT 3  
 US-09-899-046-38  
 / Sequence 38, Application US/09899046  
 / Publication No. US2003000827A1  
 / GENERAL INFORMATION:  
 / APPLICANT:  
 / TITLE OF INVENTION: New sequences of hepatitis C virus  
 / NUMBER OF INVENTION: New sequences of hepatitis C virus, genotypes for diagnosis, prophylaxis and therapy.  
 / COMPUTER: IBM PC compatible  
 / MEDIUM: Floppy disk  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/09/899,046  
 / FILING DATE:

Query Match 98.9%; Score 691; DB 10; Length 133;  
 Best Local Similarity 99.2%; Pred. No. 3.6e-71; Mismatches 0; Indels 0; Gaps 0;  
 Matches 132; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAALAYCLSGVIVGHIELGGK 60  
 Db 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAALAYCLSGVIVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120  
 Db 61 PAIVPDKEVLYQQYDMEECSSQAPYIEQAOVIAHOFKGKVLLQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133  
 Db 121 TNWQKLEAFWHKH 133

RESULT 5  
 US-09-878-281-38  
 / Sequence 38, Application US/09878281  
 / Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT: New sequences of hepatitis C virus

TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-38

RESULT 6

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 60

Db 1 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 120

Db 61 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133

Db 121 TNWQKLEAFWHKH 133

Query Match 98.9%; Score 691; DB 10; Length 209;

Best Local Similarity 99.2%; Pred. No. 6.5e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 60

Db 77 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 136

Qy 61 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 120

Db 137 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 196

Qy 121 TNWQKLEAFWHKH 133

Db 197 TNWQKLEAFWHKH 209

RESULT 7

US-09-899-046-223

Sequence 223, Application US/09899046

Publication No. US20030008274A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/899,046

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 209 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-899-046-223

RESULT 8

US-09-878-281-223

Sequence 223, Application US/09878281

Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 60

Db 1 ONEICLTHPTKYMCM5ADLEVTSTWLLGGVLAALAYCLSGCVVTVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 120

Db 137 PAIVPDKEVLYQQYDMEEC5QAAPIEQAVIAHQFKVGLIQRATQQAVIEPIVT 196

Qy 121 TNWQKLEAFWHKH 133

Db 197 TNWQKLEAFWHKH 209

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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APPLICATION NUMBER: US/09/878,281
FILING DATE: 08/09/2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE: 08/09/2000
SEQUENCE CHARACTERISTICS:
LENGTH: 209 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-878-281-223

Query Match 98.9%; Score 691; DB 10; Length 209;
Best Local Similarity 99.2%; Pred. No. 6.5e-71;
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Db 77 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 136
Qy 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKGKVLGLLQRATQQAVIEPVYT 120
Db 137 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKEKVLGLLQRATQQAVIEPVYT 196
Qy 121 TNWQKLEAFWHKH 133
Db 197 TNWQKLEAFWHKH 209
Db US-09-899-046-34

RESULT 9
US-09-899-046-32
Sequence 32, Application US/09899046
Publication No. US0030008274A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899, 046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362, 455
FILING DATE:
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-899-046-32

Query Match 96.1%; Score 672; DB 10; Length 133;
Best Local Similarity 93.2%; Pred. No. 5.4e-69;
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
Qy 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Db 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Qy 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKGKVLGLLQRATQQAVIEPVYT 120
Db 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKEKVLGLLQRATQQAVIEPVYT 120
Qy 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133
Db US-09-899-046-32

RESULT 11
US-09-978-281-32
Sequence 32, Application US/09878281
Publication No. US2003032005A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899, 046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362, 455
FILING DATE:
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-978-281-32

Query Match 96.1%; Score 672; DB 10; Length 133;
Best Local Similarity 93.2%; Pred. No. 5.4e-69;
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
Qy 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Db 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Qy 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKGKVLGLLQRATQQAVIEPVYT 120
Db 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKEKVLGLLQRATQQAVIEPVYT 120
Qy 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133
Db US-09-978-281-32

Query Match 96.1%; Score 672; DB 10; Length 133;
Best Local Similarity 93.2%; Pred. No. 5.4e-69;
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
Qy 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Db 1 ONEICLTHPTKTYIMACMSADLVEITSTWLLGGVLAALAYCLSVGCVVTVGHIELGGK 60
Qy 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKGKVLGLLQRATQQAVIEPVYT 120
Db 61 PAIVPDKEVLYQQYDENECCSQAAPIYEQQVIAHQFKEKVLGLLQRATQQAVIEPVYT 120
Qy 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

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US-09-878-281-32

Query Match 96.1%; Score 672; DB 10; Length 133;  
Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEICLTHPTKYMAGMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGK 60  
Db 1 QNEICLTHPTKYMAGMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEYLQQYDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVIT 120  
Db 61 PAIVPDKEYLQQYDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVIT 120

Qy 121 TNWQKLEAFWHKH 133  
Db 121 SNWQKLEFWHKH 133

RESULT 12  
US-09-878-281-34  
Sequence 34, Application US/09878281  
Publication No. US2003032005A1.

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878, 281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362, 455

FILING DATE:

INFORMATION FOR SEQ ID NO: 34:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-34

Query Match 96.1%; Score 672; DB 10; Length 133;  
Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEICLTHPTKYMAGMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGK 60  
Db 1 QNEICLTHPTKYMAGMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEYLQQYDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVIT 120  
Db 61 PAIVPDKEYLQQYDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVIT 120

Qy 121 TNWQKLEAFWHKH 133  
Db 121 SNWQKLEFWHKH 133

RESULT 13  
US-10-396-964-17  
Sequence 17, Application US/10396964  
Publication No. US20030128946A1.

GENERAL INFORMATION:

APPLICANT: Simmonds, Peter

APPLICANT: Chan, Shiu-Wan

APPLICANT: Yap, Peng L.

TITLE OF INVENTION: Hepatitis-C Virus Testing

FILE REFERENCE: ID0116

CURRENT APPLICATION NUMBER: US/09/742, 659

CURRENT FILING DATE: 2000-12-21

US-09-878-281-34

Query Match 81.8%; Score 572; DB 14; Length 128;  
Best Local Similarity 94.9%; Pred. No. 1.5e-57;  
Matches 111; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 8 HPITKYMAGMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGKPAIVPDK 67  
Db 2 HPXXKXMACMADLETTSTWLLGGVLAALAAAYCILSVGCVVIVGHIELGGKPAIVPDK 61

Qy 68 EVLXQYDDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVITNWQ 124  
Db 62 EVLXQYDDEMECSQAAPIYEAQVIAHQFKGVLGILQRLATQQAVIEPVITNWQ 118

RESULT 14  
US-09-742-659-4  
Sequence 4, Application US/09742659  
Patent No. US2003034015A1

GENERAL INFORMATION:

APPLICANT: Hong, Zhi

APPLICANT: Butkiewicz, Nancy J.

APPLICANT: Zhong, Weidong

APPLICANT: Ingravallo, Paul

APPLICANT: Wright-Minogue, Jacqueline

APPLICANT: Lau, Johnson Y.

APPLICANT: Lemon, Stanley M.

APPLICANT: Butkiewicz, Nancy J.

APPLICANT: Zhong, Weidong

APPLICANT: Ingravallo, Paul

APPLICANT: Wright-Minogue, Jacqueline

APPLICANT: Lau, Johnson Y.

APPLICANT: Lemon, Stanley M.

APPLICANT: Simmonds, Peter

APPLICANT: Chan, Shiu-Wan

APPLICANT: Yap, Peng L.

TITLE OF INVENTION: Chimeric HCV/GBV-B viruses

FILE REFERENCE: ID0116

CURRENT APPLICATION NUMBER: US/09/742, 659

CURRENT FILING DATE: 2000-12-21

; PRIORITY APPLICATION NUMBER: US 60/171,469  
 ; PRIOR FILING DATE: 1999-12-22  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 3011  
 ; TYPE: PRT  
 ; ORGANISM: Hepatitis C virus  
 US-09-742-659-4

Query Match 77.1%; Score 539; DB 9; Length 3011;  
 Best Local Similarity 75.9%; Pred. No. 5.5e-52;  
 Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;  
 Qy 1 QNEVLTTHPITKYMAGMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVGHIRLGK 60  
 Db 1632 QNEVLTTHPITKYMAGMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVGHIRLGK 1691  
 Qy 61 PAIVPDKEVLYQYDMEBCSQAAPYEQAQVTAHOFKGKVGLLORATQQAVIBPIVT 120  
 Db 1692 PAIPDREVLQYQFDEMEBCSQAHPLYEQGMMLAEQPKQALGLQTSRQAEVTPAVQ 1751  
 Qy 121 TNWQKLEAFWHKH 133  
 Db 1752 TNWQKLEEVFWKH 1764

RESULT 15

US-09-891-894-3  
 ; Sequence 3, Application US/09891894  
 ; Publication No. US2003013081A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Olson, William  
 ; APPLICANT: Maddon, Paul  
 ; TITLE OF INVENTION: USES OF DC-SIGN AND DC-SIGNR FOR INHIBITING HEPATITIS C VIRUS INH  
 ; FILE REFERENCE: 2048/644963/PW/SHS  
 ; CURRENT APPLICATION NUMBER: US/09/891,894  
 ; CURRENT FILING DATE: 2001-06-26  
 ; NUMBER OF SEQ ID NOS: 3  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 3  
 ; LENGTH: 3011  
 ; TYPE: PRT  
 ; ORGANISM: hepatitis c virus  
 US-09-891-894-3

Query Match 77.1%; Score 539; DB 10; Length 3011;  
 Best Local Similarity 75.9%; Pred. No. 5.5e-52;  
 Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;  
 Qy 1 QNEVLTTHPITKYMAGMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVGHIRLGK 60  
 Db 1632 QNEVLTTHPITKYMAGMSADLEVTSTWLLGGVLAALAAAYCLSVGCVVGHIRLGK 1691  
 Qy 61 PAIVPDKEVLYQYDMEBCSQAAPYEQAQVTAHOFKGKVGLLORATQQAVIBPIVT 120  
 Db 1692 PAIPDREVLQYQFDEMEBCSQAHPLYEQGMMLAEQPKQALGLQTSRQAEVTPAVQ 1751  
 Qy 121 TNWQKLEAFWHKH 133  
 Db 1752 TNWQKLEEVFWKH 1764

Search completed: February 25, 2004, 01:53:58  
 Job time : 34 secs

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 27, 2004, 21:45:32 ; Search time 64 Seconds (without alignments)

1153.257 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNBICLTHPTKTYIMACMSA.....VIEPIVTINMQKLEAFWHKH 133

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Ygapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 682209 seqs, 277473446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-LOCDEXT=0 -UNITS=5nts -START=1 -END=-1 -MATRIX=biosumb62 -TRANS=human40.cdd
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6: /cgn2_6_podata/2/ina/backfiles1.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

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1	572	81.8	367	1	US-09-244-116B-16		Sequence 16, App1
2	539	77.1	9646	3	US-08-111-566-1		Sequence 1, App1
3	539	77.1	9646	4	US-09-034-556-1		Sequence 1, App1
4	539	77.1	12980	3	US-08-811-566-5		Sequence 5, App1
5	539	77.1	12980	4	US-09-034-556-5		Sequence 5, App1
6	534	76.4	943	2	US-08-483-555-43		Sequence 43, App1
7	534	76.4	943	2	US-07-965-285-43		Sequence 43, App1
8	534	76.4	943	2	US-08-487-331-43		Sequence 43, App1
9	534	76.4	943	3	US-09-201-912-43		Sequence 43, App1
10	534	76.4	1310	3	US-08-444-818-67		Sequence 67, App1
11	534	76.4	1382	3	US-08-444-818-19		Sequence 19, App1
12	534	76.4	1414	3	US-08-867-611-51		Sequence 51, App1

**ALIGNMENTS**

Result	Score	Query	Match	Length	DB	ID	Description	
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14	534	76.4	1420	3	US-08-667-611-57		Sequence 57, App1	
15	534	76.4	1791	3	US-08-0667-611-15		Sequence 15, App1	
16	534	76.4	1791	4	US-09-690-359-15		Sequence 15, App1	
17	534	76.4	1791	5	PCT-US22-06165A-2-0		Sequence 17, App1	
18	534	76.4	1791	3	US-08-0667-611-17		Sequence 17, App1	
19	534	76.4	1797	4	US-09-690-359-17		Sequence 17, App1	
20	534	76.4	1797	5	PCT-US22-06165A-2-2		Sequence 22, App1	
21	534	76.4	1797	3	US-08-044-818-147		Sequence 29, App1	
22	534	76.4	2219	3	US-08-044-818-29		Sequence 11, App1	
23	534	76.4	2579	3	US-08-044-818-11		Sequence 11, App1	
24	534	76.4	3075	1	US-08-040-519-11		Sequence 11, App1	
25	534	76.4	3075	4	US-08-040-549-11		Sequence 11, App1	
26	534	76.4	3075	4	US-08-044-818-123		Sequence 123, App1	
27	534	76.4	6785	3	US-08-044-818-65		Sequence 65, App1	
28	534	76.4	7310	3	US-08-044-818-74		Sequence 74, App1	
29	534	76.4	8316	3	US-08-044-818-88		Sequence 88, App1	
30	534	76.4	8987	3	US-08-044-818-137		Sequence 137, App1	
31	534	76.4	9185	3	US-08-044-818-122		Sequence 122, App1	
C	32	534	76.4	9185	3	US-08-044-818-123		Sequence 123, App1
32	534	76.4	9379	3	US-08-044-818-176		Sequence 176, App1	
33	534	76.4	9379	3	US-09-388-874-1		Sequence 1, App1	
34	534	76.4	9379	4	US-09-916-559-1		Sequence 1, App1	
35	534	76.4	9379	4	US-08-040-519-9		Sequence 9, App1	
36	534	76.4	9401	1	US-07-10-760-9		Sequence 9, App1	
37	534	76.4	9401	2	US-08-432-593-1		Sequence 1, App1	
38	534	76.4	9401	4	US-08-040-549-9		Sequence 9, App1	
39	534	76.4	9401	4	US-08-040-549-9		Sequence 25, App1	
40	534	76.4	9401	4	US-08-823-895A-25		Sequence 9, App1	
41	534	76.4	9401	5	PCT-US91-02225-9		Sequence 9, App1	
42	534	76.4	9416	3	US-08-811-566-19		Sequence 19, App1	
43	534	76.4	9416	4	US-09-034-756-19		Sequence 19, App1	
44	534	76.4	9416	4	US-08-823-895A-26		Sequence 26, App1	
45	534	76.4	9416	4	US-10-104-966-13		Sequence 13, App1	

RESULT 1

US-08-244-116B-16 ; Sequence 16, Application US/08244116B ; Patent No. 5763159 ; GENERAL INFORMATION: ; APPLICANT: Simmonds, Peter ; ATTORNEY: Chan, Shiu Wan ; APPLICANT: Yap, Peng L. ; TITLE OF INVENTION: Hepatitis-C Virus Testing ; NUMBER OF SEQUENCES: 53 ; CORRESPONDENCE ADDRESS: ; ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A. ; STREET: 1211 East Morehead Street ; CITY: Charlotte ; STATE: NC 28204 ; ZIP: 28234 ; COUNTRY: United States ; COMPUTER READABLE FORM: ; MEDIUM TYPE: Floppy disk ; COMPUTER: IBM PC compatible ; OPERATING SYSTEM: PC-DOS/MS-DOS ; SOFTWARE: PatentIn Release #1.0. Version #1.30 ; CURRENT APPLICATION DATA: ; APPLICATION NUMBER: US/08/244,116B ; FILING DATE: 15-JUL-1994 ; CLASSIFICATION: 435 ; PRIORITY APPLICATION DATA: ; APPLICATION NUMBER: PCT/GB92/02143 ; FILING DATE: 20-NOV-1992 ; ATTORNEY/AGENT INFORMATION: ; NAME: Sibley, Kenneth D. ; REGISTRATION NUMBER: 31,665 ; REFERENCE/DOCKET NUMBER: 1749-125 ; TELECOMMUNICATION INFORMATION: ; TELEPHONE: 704-377-1561 ; TELEFAX: 704-334-2014



MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/034, 756  
 FILING DATE: 04-May-1998  
 CLASSIFICATION: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HOLLAND, DONALD R.  
 REFERENCE DOCKET NUMBER: 35,197  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 314-727-6092  
 TELEFAX: 314-727-6092  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 9616 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-09-034-756-1

Alignment Scores:  
 Pred. No.: 4.97e-58  
 Score: 539.00  
 Percent Similarity: 83.46%  
 Best Local Similarity: 75.94%  
 Query Match: 77.11%  
 DB: 4  
 Gaps: 0

US-09-638-693-36 (1-133) x US-09-034-756-1 (1-9646)  
 QY 1 GluAsnGluIleCysLeuThrHisProIleThrLysTyrIleSerMetSerAla 20  
 Db 5235 CAGAATGAGTCACCTGACCCAAATACATCATGACATCATGTCGCC 5294  
 Qy 21 AspLeuGluValThrThrSerThrTyrValLeuLeuGlyIleValLeuAlaAla 40  
 Db 5295 GACCTGAGGTGTCAGAGACCTGGCTGGCTGGCTCTGGCC 5354

Qy 41 AlanTyrCysLeuSerValGlyCysValValLeuGlyHisIleGluGlyLys 60  
 Db 5355 GGTATTCGCTGTCACAGGTGCTAGTGGCAGATTCCTGGGAAG 5414

Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnLysAspGluMetGluGluCys 80  
 Db 5415 CGGGCAATTATACCTGACAGGGAGTTCTACCAAGGAGTTCGATGAGAAGTGC 5474

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisIleGluGlyLys 100  
 Db 5475 TCTCAGCACTTACCGTACATGAGCAAGGATGATGCTGAGCTAGAGAAG 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaAlaGlnAlaValAlaIleGluProIleValThr 120  
 Db 5535 GGCCTGGCTCTGGAGAACGAGGTTATCACCCTGCTGTCAG 5594

Qy 121 ThrAsnTyrGlnLysLeuGluAlaPheTyrHisLysHis 133  
 Db 5595 ACCAACTGGAGAAACTGGAGTCCTGGCGAAACAC 5633

RESULT 4  
 US-08-811-566-5  
 ; Sequence 5, Application US/08811566  
 ; Patent No. 6127116  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rice, Charles et al.  
 ; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
 ; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF

---

; NUMBER OF SEQUENCES: 21  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSE: David A. Jackson, Esq.  
 ; STREET: 411 Hackensack Ave, Continental Plaza, 4th  
 ; STREET: Floor  
 ; CITY: Hackensack  
 ; STATE: New Jersey  
 ; COUNTRY: USA  
 ; ZIP: 07601  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC Compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/811,566  
 ; FILING DATE: 03-MAR-1997  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jackson, Esq., David A.  
 ; REGISTRATION NUMBER: 26,742  
 ; REFERENCE/DOCKET NUMBER: 1113-1-006  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 201-487-5000  
 ; TELEFAX: 201-343-1684  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 12980 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: NO  
 ; US-08-811-566-5

Alignment Scores:  
 Pred. No.: 7.5e-58  
 Score: 539.00  
 Percent Similarity: 83.46%  
 Best Local Similarity: 75.94%  
 Query Match: 77.11%  
 DB: 3  
 US-09-638-693-36 (1-133) x US-08-811-566-5 (1-12980)  
 Qy 1 GluAsnGluIleCysLeuThrHisProIleThrLysTyrIleSerMetSerAla 20  
 Db 5235 CAGAATGAGTCACCTGACCCAAATACATCATGACATCATGTCGCC 5294  
 Qy 21 AspLeuGluValThrThrSerThrTyrValLeuLeuGlyIleValLeuAlaAla 40  
 Db 5295 GACCTGAGGTGTCAGACGACCTGGCTCGTGCCTGGCTCTGGCC 5354  
 Qy 41 AlanTyrCysLeuSerValGlyCysValValLeuGlyHisIleGluGlyLys 60  
 Db 5355 GCGTATTCGCTGTCACAGGTGCTAGTGGCAGATTCCTGGGAAG 5414  
 Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnLysAspGluMetGluGluCys 80  
 Db 5415 CGGGCAATTATACCTGACAGGGAGTTCTACCAAGGAGTTCGATGAGAAGTGC 5474  
 Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisIleGluGlyLys 100  
 Db 5475 TCTCAGCACTTACCGTACATGAGCAAGGATGATGCTGAGCTAGAGAAG 5534  
 Qy 101 ValLeuGlyLeuLeuGlnArgAlaAlaGlnAlaValAlaIleGluProIleValThr 120  
 Db 5535 GGCCTGGCTCTGGAGAACGAGGTTATCACCCTGCTGTCAG 5594  
 Qy 121 ThrAsnTyrGlnLysLeuGluAlaPheTyrHisLysHis 133  
 Db 5595 ACCAACTGGAGAAACTGGAGTCCTGGCGAAACAC 5633

RESULT 4  
 US-08-811-566-5  
 ; Sequence 5, Application US/08811566  
 ; Patent No. 6127116  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rice, Charles et al.  
 ; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
 ; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF

RESULT 5  
 US-09-034-756-5  
 Sequence 5, Application US/09034756  
 Patent No. 6392028  
 GENERAL INFORMATION:  
 APPLICANT: RICE, CHARLES et al.  
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
 VIRUS (HCV) AND USES THEREOF

NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: HOWELL & HAVERKAMP, L.C.  
 STREET: 7733 FORSYTH BLVD., SUITE 1400  
 CITY: ST. LOUIS  
 STATE: MO  
 COUNTRY: USA  
 ZIP: 63105  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/034,756  
 FILING DATE: 04-MAY-1998  
 CLASSIFICATION: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HOLLAND, DONALD R.  
 REGISTRATION NUMBER: 35,197  
 REFERENCE/DOCKET NUMBER: 6029-4831  
 TELEPHONE: 314-727-5188  
 TELEFAX: 314-727-6992  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 12980 base pairs  
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
 US-09-034-756-5

Alignment Scores:  
 Pred. No.: 7.56-58 Length: 12980  
 Score: 539.00 Matches: 101  
 Percent Similarity: 83.46% Conservative: 10  
 Best Local Similarity: 75.94% Mismatches: 22  
 Query Match: 77.11% Deletes: 0  
 DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-034-756-5 (1-12980)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrTyrIleLysTyrIleNetAlaCysMetSerAla 20  
 Db 5235 CAGATGAGTCACCTGAGCAACGAGCTGGTGTACAGCATGATGTCGCC 5294

Qy 21 AspIleGluValThrSerThrSerThrIleGluValLeuAlaAlaLeuAla 40  
 Db 5295 GACCTGGAGCTCAGAACGACACTGGGGCTCTGGGGCCTCTGGCTGCC 5354

Qy 41 AlaTyrCysIleSerAlaGlyCysValIleValGlyHisIleGluIleGlyLys 60  
 Db 5355 GCGPATTGGCTGTCACAGGCTGGTGTACAGCATGAGGGATTGTCTGTCGGAAAG 5414

Qy 61 ProAlaIleValProAspIleGluValLeuIleTyrIleAspGluMetGluGluCys 80  
 Db 5415 CGGGAAATATACTGACGGGAAGTTCTACAGGAGCTCCATGAGATGGAGAGTC 5474

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhalysGlyLys 100  
 Db 5595 ACCATGGCAGAACATGAGCTCTGGCGAGAC 5633

RESULT 6  
 US-08-483-695-43  
 ; Sequence 43, Application US/08483695  
 ; Patent No. 5866139  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brechet, Christian  
 ; APPLICANT: Kremdorff, Diana  
 ; APPLICANT: Porchon, Colette  
 ; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a  
 ; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic  
 ; TITLE OF INVENTION: Applications  
 ; NUMBER OF SEQUENCES: 46  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Finnegan, Henderson, Parabow, Garrett &  
 ; ADDRESS: Dunner  
 ; STREET: 1300 I Street, N.W.  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20005-3315  
 ; COMPUTER READABLE FORM:  
 ; COMPUTER: IBM PC compatible  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/483,695  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/965,285  
 ; FILING DATE: 18-MAR-1993  
 ; APPLICATION NUMBER: FR 91 06 882  
 ; FILING DATE: 06-JUN-1991  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Meyers, Kenneth J.  
 ; REGISTRATION NUMBER: 25,146  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 202-408-4000  
 ; TELEFAX: 202-408-4400  
 ; INFORMATION FOR SEQ ID NO: 43:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 943 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: Other  
 ; DESCRIPTION: cDNA to genomic RNA  
 ; US-08-483-695-43

Alignment Scores:  
 Pred. No.: 8.56e-59 Length: 943  
 Score: 534.00 Matches: 99  
 Percent Similarity: 83.46% Conservative: 12  
 Best Local Similarity: 74.44% Mismatches: 22  
 Query Match: 76.39% Indels: 0  
 DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-483-695-43 (1-943)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrTyrIleAspGluMetSerAla 20

Db 534 CAGATGAATCACCTGAGCACCAAGTACAAATAACATCATGACATGTCGCC 593 US-07-965-285-43

Qy 21 AspLeuGluValThrThrSerThrProValLeuLeuGlyValLeuAlaLeuAla 40 Alignment Scores: 8.56e-59

Db 594 GACCTGGAGCTGGTCACGGCACCTGGGTCGTCGGCC 653 Pred. No.: 534.00

Qy 41 AlaTrpCysLeuSerValGlyCysValValLeuValGlyHistLeuGlyGly 60 Score: 8.468

Db 654 GCGPATGCCCTGTCACAGCTGGTGTGTCATGGTGCAGGTGGGGAAAG 713 Best Local Similarity: 74.443

Qy 61 ProAlaLeuValProAspGlyGluValLeuGlyGluValLeuGluGluCys 80 Query Match: 76.393

Db 714 CCGCAAACTACATCTGAAAGGAGTCCTACAGAGATGGAAAGTG 773 DB: 2

Qy 81 SerGlnAlaAlaAlaProTrpIleGluGlnValLeAlaHisGlnPheGly 100 Gaps: 0

Db 774 TCTCGGCACTTACCGTAAATCGGAAAGGATGATGCTGCGCAAGTCAAGCAGAAAG 833

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGinglnAlaValLeGluProIleValThr 120

Db 834 GCGCTGGCTCTCTGCAAGCCGCTCCGTCAGCGAGGTTATGCCCTGTGTCAG 893

Qy 121 ThrasnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133

Db 894 ACCAACCTGCAAAAACCTGAGACCTTCCTGGGSAAGCAT 932

RESULT 7

US-07-965-285-43

; Sequence 43, Application US/07965285

; Patent No. 5879904

; GENERAL INFORMATION:

; APPLICANT: Brechot, Christian

; APPLICANT: Kremsdorff, Dina

; APPLICANT: Porchon, Colette

; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a

; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

; TITLE OF INVENTION: Applications

; NUMBER OF SEQUENCES: 46

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Dunner, Finnegan, Henderson, Farabow, Garrett &

; STREET: 1300 I Street, N.W.

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/965,285

FILING DATE: 18-MAR-1993

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: FR 91 06 882

FILING DATE: 06-JUN-1991

ATTORNEY/AGENT INFORMATION:

NAME: Meyers, Kenneth J.

REGISTRATION NUMBER: 25,146

REFERENCE/DOCKET NUMBER: 05286-0001-00000

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-408-4000

TELEFAX: 202-408-4400

INFORMATION FOR SEQ ID NO: 43:

SEQUENCE CHARACTERISTICS:

LENGTH: 943 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Other

DESCRIPTION: cDNA to genomic RNA

US-07-965-285-43

; Sequence 43, Application US/07965285

; Patent No. 5919454

; GENERAL INFORMATION:

; APPLICANT: Brechot, Christian

; APPLICANT: Kremsdorff, Dina

; APPLICANT: Porchon, Colette

; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a

; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

; TITLE OF INVENTION: Applications

; NUMBER OF SEQUENCES: 46

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

; STREET: 1300 I Street, N.W.

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/965,285

FILING DATE: 07-JUNE-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/965,285

FILING DATE: 18-MAR-1993

CLASSIFICATION: 435



US-08-444-818-67  
 / Sequence 67, Application US/08444818  
 / GENERAL INFORMATION:  
 / Patent No. 6150087  
 / APPLICANT: Chien, David Y.  
 / TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
 / NUMBER OF SEQUENCES: 777  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Chiron Corporation  
 / STREET: 4560 Horton Street  
 / CITY: Emeryville  
 / STATE: CA  
 / ZIP: 94608-2916  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / COMPUTER: IBM PC compatible  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: PatentIn Release #1.0, Version #1.30  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/444,818  
 / FILING DATE: 14-MAR-1995  
 / CLASSIFICATION: 424  
 / PRIOR APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/403,590  
 / FILING DATE: 14-MAR-1995  
 / ATTORNEY/AGENT INFORMATION:  
 / NAME: Harbin, Alisa A.  
 / REGISTRATION NUMBER: 33,895  
 / REFERENCE/DOCKET NUMBER: 0110.002  
 / TELECOMMUNICATION INFORMATION:  
 / TELEPHONE: (508)359-3876  
 / TELEFAX: (508)359-3885  
 / INFORMATION FOR SEQ ID NO: 67:  
 / SEQUENCE CHARACTERISTICS:  
 / CLONE: composite of clones 36, 81, and 32  
 / LENGTH: 1310 base pairs  
 / TYPE: nucleic acid  
 / STRANDEDNESS: single  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: cDNA  
 / IMMEDIATE SOURCE:  
 / CLONE: composite of clones 36, 81, and 32  
 / FEATURE:  
 / NAME/KEY: CDS  
 / LOCATION: 1..1146  
 / US-08-444-818-67

Alignment Scores:  
 Pred. No. : 1. 3.5e-58  
 Score: 534.00 Length: 1310  
 Percent Similarity: 83.46% Matches: 99  
 Best Local Similarity: 74.44% Conservative: 12  
 Query Match: 76.39% Mismatches: 22  
 DB: 3 Indels: 0  
 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-67 (1-1310)

Qy 1 GlnAsnGluLysCysLeuThrHisProleThrlysTyrileMetAlaCysMetSerAla 20  
 Db 232 CAGATGAATCACCCTGACCCACCAATACTCATACATGCGGCC 291

Qy 21 AspLeuGluValThrThrSerThrTyrValLeuLeuGlyGlyValLeuAlaAlaLeuAla 40  
 Db 292 GACCTGGAGCTGTCAGAGAACCTGGGTGCTGGTGGGGGCTCTGGTGTGTTGGCC 351

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuValGlyHisIleGluLeuGlyLys 60  
 Db 352 GCGTATTGCTGTGTCACAGGTGGCTGATGTCGGGGGTCGGGGG 411

Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnItyrAspGluMetGluGluCys 80  
 Db 412 CGGGAAATCAATCACCTGACAGGAAAGTCCTTACCSARGATGAGATGGAAAGTGC 471

Qy 1 GlnAsnGluLysCysLeuThrHisProleThrlysTyrileMetAlaCysMetSerAla 20  
 Db 484 CAGATGAATCACCCTGACGGACCCAGTCATGCAATCATGCAATGTCGGCC 543

Qy Sequence 19, Application US/08444818  
 / Patent No. 6150087  
 / GENERAL INFORMATION:  
 / APPLICANT: Chien, David Y.  
 / TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
 / NUMBER OF SEQUENCES: 777  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Chiron Corporation  
 / STREET: 4560 Horton Street  
 / CITY: Emeryville  
 / STATE: CA  
 / COUNTRY: USA  
 / ZIP: 94608-2916  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / COMPUTER: IBM PC compatible  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: PatentIn Release #1.0, Version #1.30  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/444,818  
 / FILING DATE:  
 / CLASSIFICATION: 424  
 / PRIOR APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/403,590  
 / FILING DATE: 14-MAR-1995  
 / ATTORNEY/AGENT INFORMATION:  
 / NAME: Harbin, Alisa A.  
 / REGISTRATION NUMBER: 33,895  
 / REFERENCE/DOCKET NUMBER: 33,895  
 / TELEPHONE: (508)359-3876  
 / TELEFAX: (508)359-3885  
 / INFORMATION FOR SEQ ID NO: 19:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 1382 base pairs  
 / TYPE: nucleic acid  
 / STRANDEDNESS: single  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: cDNA  
 / FEATURE:  
 / NAME/KEY: CDS  
 / LOCATION: 1..1380

Alignment Scores:  
 Pred. No. : 1.46e-58  
 Score: 534.00 Length: 1382  
 Percent Similarity: 83.46% Matches: 99  
 Best Local Similarity: 74.44% Conservative: 12  
 Query Match: 76.39% Mismatches: 22  
 DB: 3 Indels: 0  
 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-19 (1-1382)

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuGlyGlyValLeuAlaAlaLeuAla 40  
 Db 544 GACCTGGAGGTCTCACAGCACTGGGTGCGGTCCTGCGTCTGGCTTCAGGC 603  
 Qy 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60  
 Db 604 GCCTTATGCCCTGTCACAGGCTCGTGTCTAGTGCGCAGGTCTACAGTCAGG 663  
 Qy 61 ProAlaIleValProAspLysGluValLeuIleGlyGlyIleGluLeuGlyGly 80  
 Db 664 CCGGCAATCTACCTGACAGGAAAGTCTAACGGAGTGGATGAGATGGAGTCG 723  
 Qy 81 SerGlnAlaAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPhe 100  
 Db 724 TCTCAGCACTTACCGTACATCGAGGAAAGTCTAACGGAGTGGATGAGTCG 783  
 Qy 101 ValLeuGlyLeuLeuGlnGlnArgAlaThrGlnGlnGlyValLeuGluPro 120  
 Db 784 GCGCTCGACCTCTGCAGAACCGATCCGAGCTCTGGCGAAGCTATGCCCTGTC 843  
 Qy 121 ThrAsnTrpGlnLysLeuGluAlaAlaPheIleGlyTrpHsLysHis 133  
 Db 844 ACCAACCTGGCAAAACTGAGACCTCTGGCGAAGCAT 882

RESULT 12  
 US-09-867-611-51

Sequence 51, Application US/08867611  
 Patent No. 6172189

GENERAL INFORMATION:

APPLICANT: DEVARE, SUSHIL G  
 APPLICANT: DESAI, SURESH M  
 APPLICANT: CASEY, JAMES M  
 APPLICANT: DALEY, STEPHEN H  
 APPLICANT: DAWSON, GEORGE J  
 APPLICANT: GUTIERREZ, ROLIN A  
 APPLICANT: LESNIOWSKI, RICHARD R  
 APPLICANT: STEWART, JAMES L  
 APPLICANT: RUPPRECHT, KEVIN R

TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT

NUMBER OF SEQUENCES: 59

ADDRESSEE: ABBOTT LABORATORIES

STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patientin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/867,611  
 FILING DATE: 02-JUN-1997  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/646,757

FILING DATE:

APPLICATION NUMBER: US/08/179,896

FILING DATE:

APPLICATION NUMBER: US/07/572,822

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/614,069

FILING DATE: 07-NOV-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/748,561

FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/748,565

FILING DATE: 21-AUG-1991

PRIOR APPLICATION NUMBER: US 07/748,566

FILING DATE: 21-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: POREMSKI, PRISCILLA E

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 4834.US.P6

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-937-9556

INFORMATION FOR SEQ ID NO: 51:

SEQUENCE CHARACTERISTICS:

LENGTH: 1414 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-867-611-51

Alignment Scores:

Pred. No.: 1.5e-58

Score: 534.00

Percent Similarity: 83.46%

Best Local Similarity: 74.44%

Query Match: 76.39%

DB: 3

Gaps: 0

US-09-638-693-36 (1-133) x US-08-867-611-51 (1-1414)

Qy 1 GlnAsnGluIleCysIleThrHisProIleThrIleStryIleMetAlaCysMetSerAla 20

Db 487 CAGAACGAAATACCCGACCCGGTACCAAAATCATGACCTGCGATGTCGTCG 546

Qy 21 AspLeuGluValThrThrSerThrProValLeuIleGlyValLeuAlaAlaLeuAla 40

Db 547 GATCTAGAAAGTTGTGTACCTCTAACCTGGTGTCTGGCTGTCGTCGGCT 606

Qy 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleLeuGlyGlyLys 60

Db 607 GCTTACTGCCCTGTCGACCGGGTGCCTGCTGTTGCTGTTGCTGTCGTCG 666

Qy 61 ProAlaIleValProAspLysGluValLeuIleGlyGlnGlnIleMetGluGlyCys 80

Db 667 CGGCCATTATCCGACCTGCGACATGAAAGGGTATGATCTGCTGAAATGAAATG 726

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPheLysGlyLys 100

Db 727 TCTACGACCTGCGACATGAAAGGGTATGATCTGCTGAAATGAAATGAA 786

Qy 101 ValLeuGlyIleLeuGlnAlaAlaThrGlnGlnGlnAlaValLeuIleGluProIleAlaThr 120

Db 787 GCTCTGGTCGCTGCGACCGCTCTCGTCGAGGTGAAGCTTCGCTCGCTGTC 846

Qy 121 ThrAsnTrpGlnLysIleGluGlnAlaPheTrpIleSlysHis 133

Db 847 ACCAACTGGCAGAAACTCGAGACCTCTGGCTAAACAC 885

RESULT 13

US-09-690-359-51

Sequence 51, Application US/09690359

Patent No. 6593083

GENERAL INFORMATION:

APPLICANT: DEVARE, SUSHIL G

APPLICANT: DESAI, SURESH M

APPLICANT: CASEY, JAMES M

APPLICANT: DALEY, STEPHEN H

APPLICANT: GUTIERREZ, ROBIN A

APPLICANT: LESNIOWSKI, RICHARD R

APPLICANT: STEWART, JAMES L

APPLICANT: RUPPRECHT, KEVIN R

607 GCTTACCTGCCCTGACCGGTGCTGTTATCGTGGTCGTTCTGTCGGTAA 666

61 ProAlaLeuProAspLysGluValLeuIrrGlnGlnIrrAspGluMetGluGluCys 80

667 CCGGCATTCGGACCGTGAGTCTGACGGTAAATGGAAATGCGATGC 726

81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysIysLys 100

727 TCTCAGGACCTCGGCTACATCGAACGGTATGATGCTGGCTGACAGTCAGAAACAGAAA 786

101 ValLeuGlyIleGluGlnAlaGlnValIleAlaHisGlnPheLysIysLys 120

787 GCTCTGGTCGGTCTGGAGACCGCTTCCTGTCAGGTGAAGTTATGCTCGGCTTCAG 846

121 ThrAsnIrrGlnIysLeuGluAlaPheTrpHisIysIis 133

847 ACCAACCTGGCAGAAACTCGAGACCTCTGGCTAAACAC 885

RESULT 14

US-08-867-611-57

; Sequence 57, Application US/0886761

; Patent No. 6172189

; GENERAL INFORMATION:

; APPLICANT: DEVAR, SUSHIL G

; APPLICANT: DEBAI, SURESH M

; APPLICANT: CASEY, JAMES M

; APPLICANT: DAILEY, STEPHEN H

; APPLICANT: DAWSON, GEORGE J

; APPLICANT: GUTIERREZ, ROBIN A

; APPLICANT: LENIEWSKI, RICHARD R

; APPLICANT: STUART, JAMES L

; APPLICANT: RUPRECHT, KEVIN R

; TITLE OF INVENTION: ANTIGENS UTILIZING RECOMBINANT

; NUMBER OF SEQUENCES: 59

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ABBOTT LABORATORIES

; STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2

; CITY: ABBOTT PARK

; STATE: IL

; COUNTRY: USA

; ZIP: 60064-3500

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentInRelease #1.0, Version #1.25

CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/867,611

; FILING DATE: 02-JUN-1997

; CLASSIFICATION: 435

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/646,757

; FILING DATE: 08-JUN-1996

; APPLICATION NUMBER: US/08/179,896

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/572,822

; FILING DATE: 24-AUG-1990

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/614,069

; FILING DATE: 07-NOV-1990

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/748,561

; FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/748,565

; FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/748,566

; FILING DATE: 21-AUG-1991

NAME: PORMASKI, PRISCILLA F

NAME: PORMASKI, PRISCILLA F

REGISTRATION NUMBER: 33,207  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6165  
 TELEFAX: 708-937-9556  
 INFORMATION FOR SEQ ID NO: 57:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1420 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 US-08-867-611-57

Alignment Scores:  
 Pred No.: 1.51e-58 Length: 1420  
 Score: 534.00 Matches: 99  
 Percent Similarity: 83.46% Conservative: 12  
 Best Local Similarity: 74.44% Mismatches: 22  
 Query Match: 76.39% Indels: 0  
 DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-867-611-57 (1-1420)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
 Db 493 CAGAACGAATCACCTGCCAACCGGTACCAAAATCATGACCTGCATGTCGCT 552

Qy 21 AspIleGluIleValThrIleSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40  
 Db 553 GATCTAGAATTGTGTACCTCTACTGGGTCTGCTGGGGTGTCTGGCTGCTGGCT 612

Qy 41 AlaTyrCysIleSerValGlyCysValValIleValGlyHistIleGluIleGlyGly 60  
 Db 613 GCTTACTGGCTGAGCCGTTGGCTGTTGTTGTTGTTGTTGGTAA 672

Qy 61 ProAlaIleValProAspIleGluValLeuIleTyrglnGlnIleAspGluIleGluCys 80  
 Db 673 CGGCCATTATCCGGACTGAGTCTGACCGTGAATGGAAATGGAAATGTC 732

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnIlePhenylsGly 100  
 Db 733 TCTGGACCTGGCTACTCGAACAGCTTATGTCGCTGGCTGAACAGTCTAACAGAAA 792

Qy 101 ValIleGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValIle 120  
 Db 793 GCTCTGGCTGCTGAGCAGCTCTCGTCAGGCTGAGATGATCGCTGCTGTCAG 852

Qy 121 ThraAsnTrpGlnIleLeuGluAlaPheIlePhenylsIle 133  
 Db 853 ACCRACTGGAGAAACTCGAACCTCTGGCTAAACAC 891

RESULT 15  
 US-09-690-359-57  
 Sequence 57, Application US/09690359  
 GENERAL INFORMATION:  
 Patent No. 6591083  
 APPLICANT: DEVAR, SUSHIL G  
 DESAI, SURESH M  
 CASEY, JAMES M  
 DAILEY, STEPHEN H  
 DAWSON, GEORGE J  
 GUTIERREZ, ROBIN A  
 LESTNIENSKI, RICHARD R  
 STEWART, JAMES L  
 RUPPRECHT, KEVIN R  
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS  
 NUMBER OF SEQUENCES: 59  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK

STATE: IL  
 COUNTRY: USA  
 ZIP: 60064-3500  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/690,359  
 FILING DATE: 17-Oct-2000  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/867,611  
 FILING DATE: 24-AUG-1990  
 APPLICATION NUMBER: US 07/614,069  
 FILING DATE: 02-JUN-1997  
 APPLICATION NUMBER: US/08/646,757  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US/08/179,896  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 07/572,822  
 FILING DATE: 07-NOV-1990  
 APPLICATION NUMBER: US 07/748,561  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,565  
 FILING DATE: 21-AUG-1991  
 APPLICATION NUMBER: US 07/748,566  
 FILING DATE: 21-AUG-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: POREMSKI, PRISCILLA E  
 REGISTRATION NUMBER: 33,207  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-937-9556  
 INFORMATION FOR SEQ ID NO: 57:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1420 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (Genomic)  
 SEQUENCE DESCRIPTION: SEQ ID NO: 57:  
 US-09-690-359-57

Alignment Scores:  
 Pred. No.: 1.51e-58 Length: 1420  
 Score: 534.00 Matches: 99  
 Percent Similarity: 83.46% Conservative: 12  
 Best Local Similarity: 74.44% Mismatches: 22  
 Query Match: 76.39% Indels: 0  
 DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-690-359-57 (1-1420)

Qy 1 GlnAsnGluIleCysteuthrHisProIleThrIleValIleAlaCysMetSerAla 20  
 Db 493 CAGAACAAATCACCTGACCCGTTACCAAAATCATGACCTGCATGTCGCT 552

Qy 21 AspLeuGluValThrSerThrTrpValIleLeuGlyIleValLeuAlaAlaLeuAla 40  
 Db 553 GATCTAAAGTTGTTCTCACCGGTTCTGTTGTTGTTGGCTCTGGCTCTGGCT 612

Qy 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyIleLeuGlyGly 60  
 Db 613 GCTTACTGGCTGTCGACCTGGCTGATGTTGCTGTTGTTGCTGTTGCTGCTGAA 672

Qy 61 ProAlaIleValProAspIleGluValLeuIleGlyIleLeuGlyIleLeuGly 80  
 Db 673 CGGCCATTATCCGGACTGAGTCTGACCGTGAATGGAAATGTC 732

Qy 81 SerglnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnIlePhenylsGly 100  
 Db 733 TCTGGACCTGGCTACTCGAACAGCTTATGTCGCTGGCTGAACAGTCTAACAGAAA 792

Qy 101 ValIleGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValIle 120  
 Db 793 GCTCTGGCTGCTGAGCAGCTCTCGTCAGGCTGAGATGATCGCTGCTGTCAG 852

Qy 121 ThraAsnTrpGlnIleLeuGluAlaPheIlePhenylsIle 133  
 Db 853 ACCRACTGGAGAACTCGAACCTCTGGCTAAACAC 891

RESULT 15  
 US-09-690-359-57  
 Sequence 57, Application US/09690359  
 GENERAL INFORMATION:  
 Patent No. 6591083  
 APPLICANT: DEVAR, SUSHIL G  
 DESAI, SURESH M  
 CASEY, JAMES M  
 DAILEY, STEPHEN H  
 DAWSON, GEORGE J  
 GUTIERREZ, ROBIN A  
 LESTNIENSKI, RICHARD R  
 STEWART, JAMES L  
 RUPPRECHT, KEVIN R  
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS  
 NUMBER OF SEQUENCES: 59  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES  
 STREET: ONE ABBOTT PARK ROAD, CHADD377/AP6D2  
 CITY: ABBOTT PARK

81 SerglnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnIlePhenylsGly 100

Db	733	TCTCAGGACTCTGCCGTACATCGAACAGGGTATCGAAGCTGCTGAAACAGTTCAAACAGAAA	792
Qy	101	ValleuGlyLeuIleGlnArgAlaThrClnGlnAlaValIleGluProIleValThr	120
Db	793	GCTCTGGGCTCTGTGCAAGACCGTTTCGTCAGGCTGAAAGTATCGCTCGGCTGTTCAAG	852
Qy	121	ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
Db	853	ACCAACTGGAGAAACTGGAGACCTCTGGCTAAACAC	891

Search completed: February 27, 2004, 21:51:48  
Job time : 74 secs





LENGTH: 401 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 IMMEDIATE SOURCE:  
 CLONE: BR36-20-166  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 3..401  
 US-09-899-046-37

Alignment Scores:  
 Pred. No.: 1.05e-91 Length: 401  
 Score: 691.00 Matches: 132  
 Percent Similarity: 99.25% Conservative: 0  
 Best Local Similarity: 99.25% Mismatches: 1  
 Query Match: 98.86% Indels: 0  
 DB: 10 Gaps: 0  
 US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrIleAspMetSerAla 20  
 Db 3 CAAATGAATCTGCTGACACCCATACAAATACTATGCCATGCAGCT 62

QY 21 AspLeuGluValThr-ThrSerThrThrSerThrTrpValLeuGly 40  
 Db 63 GATCTGGAACTAACCAACGACCTGGTTGGCTGGGGCTGGCTAGCG 122

QY 41 AlaTyrCysLeuSerValGlyCysValValIleAla 60  
 Db 123 GCCTACTGCTGTCAGTCGGTGGTGCATATCGAGCTGGCGCAG 182

QY 61 ProAlaIleValProAspIysGluValLeuThrGlnGlnIleArgL 80  
 Db 183 CGGAAATGTCAGAACAGAGGTGTCTATCACATAGATGAGGGAGTC 242

QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAla 100  
 Db 243 TCACAGCTGCCCATATATCGAACAAAGTCAGGTGATGCTTACCGTCAGAA 302

QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIle 120  
 Db 303 GTCCCTGGATTGCTGAGGCCACCAACAGCTGATTGAGCCATAGTA 362

QY 121 ThreonTrpGlnIleLeuGluAlaPheThrPheIleGln 133  
 Db 363 ACCACTGGCAAAAGCTGAGGCCTTGGCACAGCAT 401

RESULT 4  
 US-09-899-046-39  
 ; Sequence 39, Application US/09899046  
 ; Publication No. US20030008274A1

GENERAL INFORMATION  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/899, 046  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362, 455  
 FILING DATE:  
 INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 401 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 IMMEDIATE SOURCE:  
 CLONE: BR36-20-165  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 3..401  
 US-09-899-046-39

Alignment Scores:  
 Pred. No.: 1.05e-91 Length: 401  
 Score: 691.00 Matches: 132  
 Percent Similarity: 99.25% Conservative: 0  
 Best Local Similarity: 99.25% Mismatches: 1  
 Query Match: 98.86% Indels: 0  
 DB: 10 Gaps: 0  
 US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrIleAspMetSerAla 20  
 Db 3 CAAATGAATCTGCTGACACCCATACAAATACTATGCCATGCAGCT 62

QY 21 AspLeuGluValThr-ThrSerThrThrSerThrTrpValLeuGly 40  
 Db 63 GATCTGGAACTAACCAACGACCTGGTTGGCTGGGGCTGGCTAGCG 122

QY 41 AlaTyrCysLeuSerValGlyCysValValIleAla 60  
 Db 123 GCCTACTGCTGTCAGTCGGTGGTGCATATCGAGCTGGCGCAG 182

QY 61 ProAlaIleValProAspIysGluValLeuThrGlnGlnAlaGlnValIleAla 80  
 Db 183 CGGAAATGTCAGAACAGAGGTGTCTATCACATAGATGAGGGAGTC 242

QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAla 100  
 Db 243 TCACAGCTGCCCATATATCGAACAAAGTCAGGTGATGCTTACCGTCAGAA 302

QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIle 120  
 Db 303 GTCCCTGGATTGCTGAGGCCACCAACAGCTGATTGAGCCATAGTA 362

QY 121 ThreonTrpGlnIleLeuGluAlaPheThrPheIleGln 133  
 Db 363 ACCACTGGCAAAAGCTGAGGCCTTGGCACAGCAT 401

RESULT 5  
 US-09-78-281-37  
 Sequence 37, Application US/09878281  
 ; Publication No. US2003003205A1

GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: New sequences of hepatitis C virus  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/899, 046  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/09/878, 281  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362, 455  
 FILING DATE:

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
 STREET: 1211 East Morehead Street  
 CITY: Charlotte  
 STATE: No. US20030198946Alt Carolina  
 COUNTRY: United States

ZIP: 28234  
 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0. Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/396,964  
 FILING DATE: 23-MARCH-2003

CLASSIFICATION:  
 APPLICATION NUMBER: US/08/244,116B  
 FILING DATE: 15-JULY-1994

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/GB92/02143  
 FILING DATE: 20-NOV-1992

ATTORNEY/AGENT INFORMATION:  
 NAME: Sibley, Kenneth D.  
 REGISTRATION NUMBER: 31,665

REFERENCE/DOCKET NUMBER: 1749-125

TELECOMMUNICATION INFORMATION:

TELEPHONE: 704-377-1561  
 TELEFAX: 704-334-2014

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:  
 ORGANISM: Hepatitis-C virus

US-10-396-964-16

SEQUENCE CHARACTERISTICS:

TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO

ORIGINAL SOURCE:  
 ORGANISM: Hepatitis-C virus

US-10-396-964-16

Alignment Scores:

Pred. No.: 2,69e-74 Length: 367  
 Score: 572.00 Matches: 111  
 Percent Similarity: 94.87% Conservative: 0  
 Best Local Similarity: 94.87% Mismatches: 6  
 Query Match: 81.83% Indels: 0  
 DB: 14 Gaps: 0

US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)

Qy 8 HisProleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSer

Db 5 CACCCYRUCRCAAATACVNTCAUGGAUAGYAUUGCAUCUGAAAGTAACCCAGC 64

Qy 28 ThrTrpValLeuIleGlyIleValLeuAlaLeuAlaAlaTyrCysLeuSerValGly

Db 65 ACCUGGSGGUGGCGTUGGAGGCGGCUACUGCUACUGCUACUGUCAGUCGCG 124

Qy 48 CysValValIleValGlyHistIleGluIleGlyGlyIleProAlaLeuProAspLys

Db 125 UGCGGCGGCGTUGGAGGCGGCUACUGCUACUGCUACUGUCAGUCGCG 184

Qy 68 GluValLeuTyrGlnGlnTyrIleGluGluMetGluGluCysSerGlnAlaAlaProTyrIle

Db 185 GARGUGUGUAUCAACAAUACGAUAGAUGAUGGAGGAGGCUUCGCAAGCGCCATAUUC 244

Qy 88 GluGlnAlaGlnValLeuAlaHisGlnPhelysGlyIysValleuglyLeuLeuGlnArg

Db 245 GAAACAGCUCAGCUCAGURAUAGGCCAACCAACGACUCAGGAAAGUCCUUGCAGCGR 304

Qy 108 AlaThrGlnGlnGlnAlaValIleGluProIleAlaIleGluValThrThrAsnTrpGln 124  
 Db 305 GCCACCCAAACACRGCGUYAUTGGCCMAUAGUAGCMAUCCACUGGCAA 355

RESULT 14  
 US-09-742-659-3  
 ; Sequence 3, Application US/09742659  
 ; Patent No. US20010034019A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hong, Zhi  
 ; APPLICANT: Butkiewicz, Nancy J.  
 ; APPLICANT: Zhong, Weidong  
 ; APPLICANT: Ingavillo, Paul  
 ; APPLICANT: Wright-Minogue, Jacqueline  
 ; APPLICANT: Lau, Johnson Y.  
 ; APPLICANT: Lemmon, Stanley M.  
 ; TITLE OF INVENTION: Chimeric HCV/GBV-B viruses  
 ; FILE REFERENCE: ID01116  
 ; CURRENT APPLICATION NUMBER: US/09/742,659  
 ; CURRENT FILING DATE: 2000-12-21  
 ; PRIOR APPLICATION NUMBER: US 60/171,469  
 ; PRIOR FILING DATE: 1999-12-22  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO: 3  
 ; LENGTH: 9646  
 ; TYPE: DNA  
 ; ORGANISM: Hepatitis C virus  
 US-09-742-659-3

Alignment Scores:  
 Pred. No.: 2,26e-67  
 Score: 539.00  
 Percent Similarity: 83.46%  
 Best Local Similarity: 75.94%  
 Query Match: 77.11%  
 DB: 9

US-09-638-693-36 (1-133) x US-09-742-659-3 (1-9646)

Qy 1 GlnAsnGluIleCysLeuIleThrHisProleThrIlysTyrIleMetAlaCysMetSerAla 20  
 Db 5235 CAGATGAAAGTCACCCGACCTGAGCACCCAATACCAATACTCATGATCGGCC 5294

Qy 21 AspLeuGluValThrThrSerThrIleGlyValleuAlaAlaLeuAla 40  
 Db 5295 GACCTGGGGTCGTCAGACCTGGGACCTGGCTGCTGGCCGCTCTGGTGTGGCTGGCC 5354

Qy 41 AlaTyrCysIleSerValGlyCysValleuIleValGlyHistIleGluIleGlyClyLys 60  
 Db 5355 GCGTATTGCGCTGTCACGGCTGCTGCTGATAGGGAGGATGTCATGGAGGATTGTCGCCGGAAG 5414

Qy 61 ProAlaIleValProAspIleGluValLeuTyrGlnGlnIrrGlnGlnProGluMetGluGluCys 80  
 Db 5415 CGGGATTATACTGACAGGGAGTCCTACCGGAGTTCTACCGGAGGTTCTGATGAGATGGAAAGTGC 5474

Qy 81 SerGlnAlaAlaProTyrIleGluClnAlaGlnValleuAlaHisGlnDheLyGlyLys 100  
 Db 5475 TCTCTGGCACTTACCTGATCATCGAGGAGATGATGCTGCTGAGCTGAGTCAAGGAGAAG 5534

Qy 101 ValLeuGlyIleLeuLeuGlnArgAlaIleThrGlnGlnAlaValIleGluProIleValThr 120  
 Db 5535 GCGCTGGCTTCCTGAGACCCGTCGCCGCAAGGAGGTTTACCCCTGCTGTCCAG 5594

Qy 121 ThrAsnTrpGlnLysIleuGluAlaIlePheTrpHisIysHis 133  
 Db 5595 ACCAATGGCGAAACTCGAGTCCTGCTGCTGCTGAGGCAG 5633

RESULT 15  
 US-09-238-076-1  
 ; Sequence 1, Application US/09238076  
 ; Patent No. US20020102540A1  
 ; GENERAL INFORMATION:

APPLICANT: RICE, CHARLES et al.  
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: HOWELL & HAERKAMP, L.C.  
 STREET: 7733 FORSYTH BLVD., SUITE 1400  
 CITY: ST. LOUIS  
 STATE: MO  
 COUNTRY: USA

ZIP: 63105  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.3.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/238,076  
 FILING DATE:  
 CLASSIFICATION:

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 09/034,756  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HOLLAND, DONALD R.

REGISTRATION NUMBER: 35,197  
 REFERENCE/DOCKET NUMBER: 6029-4831  
 TELEPHONE: 314-727-5188  
 TELEFAX: 314-727-6092

INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 9646 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO

US-09-238-076-1

Alignment Scores:

Pre. No.: 2.26e-67

Score: 539.00

Percent Similarity: 83.46%

Best Local Similarity: 75.94%

Query Match: 77.11%

DB: 9

Length: 9646

Matches: 101

Conservative: 10

Mismatches: 22

Indels: 0

Gaps: 0

US-09-638-693-36 (1-133) x US-09-238-076-1 (1-9646)

Qy 1 GluAsnGluTyrLeuThrHisProLeuLysThrLeuMetAlaCysMetSerAla 20

Db 5235 CAGAATGAAAGTACCCCTGAGCZACCPATCACAAATACTATGACATGATGCGC 5294

Qy 21 AspLeuGluValThrThrSerThrTyrValLeuLeuLeuGlyValLeuAlaLeuAla 40

Db 5295 GACCTGAGGTGCTCAAGAGACCTGGTGTGCTGTTGGAGCTCTGGCTCNGGCC 5354

Qy 41 AlaTyrCysLeuSerValGlycysValValIleValGlyHisIleGluLeuGlyLys 60

Db 5355 GCGTATTGCCTCTCAACAGGTCGTCATAGTGGCAGGATTGTCTGTCGGAAAG 5414

Qy 61 ProAlaLeuValProAspGluValLeuGlyValLeuGluGluCys 80

Db 5415 CGGGCAATTATACTGAGGAGGTCTTACAGGATGTCGATGATGAGTGAAGGTGC 5474

Qy 81 SerGlnAlaAlaProTyrLeuGlnAlaGinValLeAlaHisGlnPheLeysGlyLys 100

Db 5475 TCTCAGACTAACCGTACATCCAGCAGGGATGATGTCGCTGAGCTGAGCAGAAG 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeGluProLeValThr 120

5535 GCCCTCGCCCTCCCTGAGACCCGTCAGACCCGTCAGACCCGAGGGTATCACCCCTGCTGTCAG 5594  
 121 ThrAsnTyrGlnLysLeuGlnAlaPheThrHisLysLys 133  
 5595 ACCACATGGCAGAACTCGAGGCTCTGGCGAAGCAC 5633

Search completed: February 27, 2004, 22:49:16  
 Job time : 260 secs

Db 5535 GCCCTCGCCCTCCCTGAGACCCGTCAGACCCGTCAGACCCGAGGGTATCACCCCTGCTGTCAG 5594

Qy 121 ThrAsnTyrGlnLysLeuGlnAlaPheThrHisLysLys 133

Db 5595 ACCACATGGCAGAACTCGAGGCTCTGGCGAAGCAC 5633